

CITIZEN

JavaPOS DRIVER 1.14

Application Development Guide

For Ver. 1.14.0.5

CITIZEN SYSTEMS JAPAN CO., LTD.

Revision Record

| Date | Version | Description |
|--------------|----------|---|
| May 7, 2010 | 1.00 | New issue |
| Oct 8, 2010 | 1.01 | - Added the explanation about the bitmap format to [setBitmap Method/ESC #B Escape Sequence] and [printBitmap Method]. |
| Apr 5, 2011 | 1.02 | - Added CT-S310II to the support models. - "58mm/35columns" setting was added for CT-S601/651/801/851/2000. - Relations table was changed according the model. - "User Defined" was added for CharSetList of Property Relations. |
| Oct 31, 2011 | 1.11.2.6 | - Version number is changed to same version as driver itself. - Added the explanation about error code of Claim Method. - Changed the explanation about width parameter of [printBarCode Method/ESC #R Escape Sequence]. - Added the explanation about the directions of rotation to [setBitmap Method/ESC #B Escape Sequence]. |
| Mar 26, 2012 | 1.11.2.7 | - Added CD-S500 to the support models. - Changed each item of relations table about the page mode function. - Changed the explanation about the directions of rotation of printBarCode Method. - Changed the explanation about the directions of rotation of printBitmap Method. |
| Mar 11, 2013 | 1.11.2.8 | - Added the function to detect the completion of printing in [Other printer setting]. - Added the JPOS_CH_INTERNAL of checkHealth in Method Relations. - PDF-417,QRCode,GS1 DataBar were added to "Supported barcodes". - Added the explanation about "Printing GS1 DataBar barcode". - Added the explanation about "Function to detect the completion of printing" and "Function to evade buffer full when the printer error occurred in the printing output". |
| Jan 17, 2014 | 1.11.3.0 | - Added Windows8/8.1 to Object Operating systems. - Added CT-S281BT/BD to Object Models. - The cash drawer of CT-S281 was added to each item. |
| Jul 9, 2014 | 1.11.3.1 | - Added 936(Chinese) to the Code Page. - Added NV (Use key code) mode to the SetBitmap mode. - Added the case of "The status feature of the Windows printer driver is enabled" to the extended error code of Claim Method. - Added the explanation about "Handling of character encoding". |
| Feb 16, 2015 | 1.11.3.2 | - Added CT-S251 and CT-S601II/651II/801II/851II to the support models. - Added the explanation about "Grayscale print". |
| Sep 30, 2015 | 1.11.3.3 | - Added CT-S310II Ethernet to the applicable driver. - Added CD-S500 USB to the applicable driver of Linux. |
| Nov 28, 2016 | 1.11.3.4 | - Added Windows10 to Object Operating systems. - Added CT-D150 and CT-E351 to the support models. |
| Jun 13, 2017 | 1.11.3.5 | - Added CT-D151 and CT-E651 to the support models. |
| Jan 7, 2019 | 1.14.0.1 | - Supported JavaPOS1.14 - Added CT-S751 and PMU2300III to the support models. - Changed the function of the power notify to JPOS_PR_ADVANCED. - Modied description for extended error code of the claim method. |
| Feb 12, 2019 | 1.14.0.2 | - Added CT-S4500 to the support models. - Added PTR_MF_TO_NEXT_TOF to the MarkFeed method options. - Added the explanation about "Printing UTF-8 encode characters". |
| Dec 14, 2020 | 1.14.0.3 | - Added CT-D151-L, CT-E651-L and PMU3300 to the support models. |
| Apr 13, 2021 | 1.14.0.4 | - Added CT-D101, CT-E301 and CT-E601 to the support models. |
| Aug 25, 2023 | 1.14.0.5 | - Added CT-S801III and CT-S851III to the support models. (Page 12,13,16,24,41, 100-103,141,150,168,183,190) - Added left adjustment to the support escape sequences. (Page 128-147) |

Notes

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1. Introduction

This driver complies with JavaPOS1.14. This document provides the explanation of device (POS printer)-dependent specifications and precautions. When you want to develop applications by using this driver, refer to "Java for Retail POS Programming Guide" beforehand.

1.1. CITIZEN JavaPOS Driver

This driver provides an open device driver architecture that can easily integrate the CITIZEN POS printer and the cash drawer connected to it by the POS system based on Java. This driver has been developed for the following purpose.

- Definition of architecture for accessing the Java-based POS printer and cash drawer connected to it
- Definition of interface of CITIZEN POS printer supporting POS solution and cash drawer connected to it

1.2. Application Developer

Application developer who wants to use this driver must be familiar with the following items.

- JavaPOS1.14 specifications
- General characteristics of CITIZEN POS printer
- Terms and structure of Java
- Java development environment

1.3. CITIZEN JavaPOS Driver Precautions

- When printing on label paper, use MarkFeed method (handling of marked paper).
- Please note that proper operation is not guaranteed at the environment where OPOS driver by other company is installed.
- Also refer to the notes in each chapter.

2. Operating Environment

2.1. Object Operating System

This driver supports the following operating systems.

- Windows7, Windows10, Windows11 (Use Java Virtual Machine)
- Linux (Use Java Virtual Machine)

2.2. Object Models

Object models of this driver and the corresponding drivers are as shown below.

For details of each model, refer to the Printer User's Guide.

2.2.1 Applicable driver (Windows)

| Series of Model | OS | Interface | Logical Name |
|-----------------|---------|-----------|---|
| CT-D101 | Windows | Serial | CITIZEN D101 Serial Windows CITIZEN D101 Cash Drawer 1 Serial Windows CITIZEN D101 Cash Drawer 2 Serial Windows |
| | | USB | CITIZEN D101 USB Windows CITIZEN D101 Cash Drawer 1 USB Windows CITIZEN D101 Cash Drawer 2 USB Windows |
| | | Ethernet | CITIZEN D101 Ethernet Windows CITIZEN D101 Cash Drawer 1 Ethernet Windows CITIZEN D101 Cash Drawer 2 Ethernet Windows |
| CT-D150 | Windows | Serial | CITIZEN D150 Serial Windows CITIZEN D150 Cash Drawer 1 Serial Windows CITIZEN D150 Cash Drawer 2 Serial Windows |
| | | USB | CITIZEN D150 USB Windows CITIZEN D150 Cash Drawer 1 USB Windows CITIZEN D150 Cash Drawer 2 USB Windows |
| | | Ethernet | CITIZEN D150 Ethernet Windows CITIZEN D150 Cash Drawer 1 Ethernet Windows CITIZEN D150 Cash Drawer 2 Ethernet Windows |
| CT-D151 | Windows | Serial | CITIZEN D151 Serial Windows CITIZEN D151 Cash Drawer 1 Serial Windows CITIZEN D151 Cash Drawer 2 Serial Windows |
| | | USB | CITIZEN D151 USB Windows CITIZEN D151 Cash Drawer 1 USB Windows CITIZEN D151 Cash Drawer 2 USB Windows |
| | | Ethernet | CITIZEN D151 Ethernet Windows CITIZEN D151 Cash Drawer 1 Ethernet Windows CITIZEN D151 Cash Drawer 2 Ethernet Windows |
| CT-E301 | Windows | Serial | CITIZEN E301 Serial Windows CITIZEN E301 Cash Drawer 1 Serial Windows CITIZEN E301 Cash Drawer 2 Serial Windows |
| | | USB | CITIZEN E301 USB Windows CITIZEN E301 Cash Drawer 1 USB Windows CITIZEN E301 Cash Drawer 2 USB Windows |
| | | Ethernet | CITIZEN E301 Ethernet Windows CITIZEN E301 Cash Drawer 1 Ethernet Windows CITIZEN E301 Cash Drawer 2 Ethernet Windows |
| CT-E351 | Windows | Serial | CITIZEN E351 Serial Windows CITIZEN E351 Cash Drawer 1 Serial Windows CITIZEN E351 Cash Drawer 2 Serial Windows |
| | | USB | CITIZEN E351 USB Windows CITIZEN E351 Cash Drawer 1 USB Windows CITIZEN E351 Cash Drawer 2 USB Windows |

| Series of Model | OS | Interface | Logical Name |
|-------------------------|---------|------------------|---|
| | | Ethernet | CITIZEN E351 Ethernet Windows CITIZEN E351 Cash Drawer 1 Ethernet Windows CITIZEN E351 Cash Drawer 2 Ethernet Windows |
| CT-E651 | Windows | Serial | CITIZEN E651 Serial Windows CITIZEN E651 Cash Drawer 1 Serial Windows CITIZEN E651 Cash Drawer 2 Serial Windows |
| | | USB | CITIZEN E651 USB Windows CITIZEN E651 Cash Drawer 1 USB Windows CITIZEN E651 Cash Drawer 2 USB Windows |
| | | Ethernet | CITIZEN E651 Ethernet Windows CITIZEN E651 Cash Drawer 1 Ethernet Windows CITIZEN E651 Cash Drawer 2 Ethernet Windows |
| CT-E601 | Windows | Serial | CITIZEN E601 Serial Windows CITIZEN E601 Cash Drawer 1 Serial Windows CITIZEN E601 Cash Drawer 2 Serial Windows |
| | | USB | CITIZEN E601 USB Windows CITIZEN E601 Cash Drawer 1 USB Windows CITIZEN E601 Cash Drawer 2 USB Windows |
| | | Ethernet | CITIZEN E601 Ethernet Windows CITIZEN E601 Cash Drawer 1 Ethernet Windows CITIZEN E601 Cash Drawer 2 Ethernet Windows |
| CT-S251 | Windows | Serial | CITIZEN S251 Serial Windows CITIZEN S251 Cash Drawer 1 Serial Windows CITIZEN S251 Cash Drawer 2 Serial Windows |
| | | USB | CITIZEN S251 USB Windows CITIZEN S251 Cash Drawer 1 USB Windows CITIZEN S251 Cash Drawer 2 USB Windows |
| | | Ethernet | CITIZEN S251 Ethernet Windows CITIZEN S251 Cash Drawer 1 Ethernet Windows CITIZEN S251 Cash Drawer 2 Ethernet Windows |
| CT-S281/281BT/ 281BD | Windows | Serial/Bluetooth | CITIZEN S281 Serial Windows CITIZEN S281 Cash Drawer 1 Serial Windows |
| | | USB | CITIZEN S281 USB Windows CITIZEN S281 Cash Drawer 1 USB Windows |
| CT-S310 | Windows | Serial | CITIZEN S310 Serial Windows CITIZEN S310 Cash Drawer 1 Serial Windows CITIZEN S310 Cash Drawer 2 Serial Windows |
| | | USB | CITIZEN S310 USB Windows CITIZEN S310 Cash Drawer 1 USB Windows CITIZEN S310 Cash Drawer 2 USB Windows |
| | | Ethernet | CITIZEN S310 Ethernet Windows CITIZEN S310 Cash Drawer 1 Ethernet Windows CITIZEN S310 Cash Drawer 2 Ethernet Windows |
| CT-S310II | Windows | Serial | CITIZEN S310II Serial Windows CITIZEN S310II Cash Drawer 1 Serial Windows CITIZEN S310II Cash Drawer 2 Serial Windows |
| | | USB | CITIZEN S310II USB Windows CITIZEN S310II Cash Drawer 1 USB Windows CITIZEN S310II Cash Drawer 2 USB Windows |
| | | Ethernet | CITIZEN S310II Ethernet Windows CITIZEN S310II Cash Drawer 1 Ethernet Windows CITIZEN S310II Cash Drawer 2 Ethernet Windows |
| CT-S601 | Windows | Serial | CITIZEN S601 Serial Windows CITIZEN S601 Cash Drawer 1 Serial Windows CITIZEN S601 Cash Drawer 2 Serial Windows |
| | | USB | CITIZEN S601 USB Windows CITIZEN S601 Cash Drawer 1 USB Windows CITIZEN S601 Cash Drawer 2 USB Windows |
| | | Ethernet | CITIZEN S601 Ethernet Windows CITIZEN S601 Cash Drawer 1 Ethernet Windows CITIZEN S601 Cash Drawer 2 Ethernet Windows |

| Series of Model | OS | Interface | Logical Name |
|-----------------|---------|-----------|--|
| CT-S601II | Windows | Serial | CITIZEN S601II Serial Windows CITIZEN S601II Cash Drawer 1 Serial Windows CITIZEN S601II Cash Drawer 2 Serial Windows |
| | | USB | CITIZEN S601II USB Windows CITIZEN S601II Cash Drawer 1 USB Windows CITIZEN S601II Cash Drawer 2 USB Windows |
| | | Ethernet | CITIZEN S601II Ethernet Windows CITIZEN S601II Cash Drawer 1 Ethernet Windows CITIZEN S601II Cash Drawer 2 Ethernet Windows |
| CT-S651 | Windows | Serial | CITIZEN S651 Serial Windows CITIZEN S651 Cash Drawer 1 Serial Windows CITIZEN S651 Cash Drawer 2 Serial Windows |
| | | USB | CITIZEN S651 USB Windows CITIZEN S651 Cash Drawer 1 USB Windows CITIZEN S651 Cash Drawer 2 USB Windows |
| | | Ethernet | CITIZEN S651 Ethernet Windows CITIZEN S651 Cash Drawer 1 Ethernet Windows CITIZEN S651 Cash Drawer 2 Ethernet Windows |
| CT-S651II | Windows | Serial | CITIZEN S651II Serial Windows CITIZEN S651II Cash Drawer 1 Serial Windows CITIZEN S651II Cash Drawer 2 Serial Windows |
| | | USB | CITIZEN S651II USB Windows CITIZEN S651II Cash Drawer 1 USB Windows CITIZEN S651II Cash Drawer 2 USB Windows |
| | | Ethernet | CITIZEN S651II Ethernet Windows CITIZEN S651II Cash Drawer 1 Ethernet Windows CITIZEN S651II Cash Drawer 2 Ethernet Windows |
| CT-S801 | Windows | Serial | CITIZEN S801 Serial Windows CITIZEN S801 Cash Drawer 1 Serial Windows CITIZEN S801 Cash Drawer 2 Serial Windows |
| | | USB | CITIZEN S801 USB Windows CITIZEN S801 Cash Drawer 1 USB Windows CITIZEN S801 Cash Drawer 2 USB Windows |
| | | Ethernet | CITIZEN S801 Ethernet Windows CITIZEN S801 Cash Drawer 1 Ethernet Windows CITIZEN S801 Cash Drawer 2 Ethernet Windows |
| CT-S801II | Windows | Serial | CITIZEN S801II Serial Windows CITIZEN S801II Cash Drawer 1 Serial Windows CITIZEN S801II Cash Drawer 2 Serial Windows |
| | | USB | CITIZEN S801II USB Windows CITIZEN S801II Cash Drawer 1 USB Windows CITIZEN S801II Cash Drawer 2 USB Windows |
| | | Ethernet | CITIZEN S801II Ethernet Windows CITIZEN S801II Cash Drawer 1 Ethernet Windows CITIZEN S801II Cash Drawer 2 Ethernet Windows |
| CT-S801III | Windows | Serial | CITIZEN S801III Serial Windows CITIZEN S801III Cash Drawer 1 Serial Windows CITIZEN S801III Cash Drawer 2 Serial Windows |
| | | USB | CITIZEN S801III USB Windows CITIZEN S801III Cash Drawer 1 USB Windows CITIZEN S801III Cash Drawer 2 USB Windows |
| | | Ethernet | CITIZEN S801III Ethernet Windows CITIZEN S801III Cash Drawer 1 Ethernet Windows CITIZEN S801III Cash Drawer 2 Ethernet Windows |
| CT-S851 | Windows | Serial | CITIZEN S851 Serial Windows CITIZEN S851 Cash Drawer 1 Serial Windows CITIZEN S851 Cash Drawer 2 Serial Windows |
| | | USB | CITIZEN S851 USB Windows CITIZEN S851 Cash Drawer 1 USB Windows CITIZEN S851 Cash Drawer 2 USB Windows |
| | | Ethernet | CITIZEN S851 Ethernet Windows CITIZEN S851 Cash Drawer 1 Ethernet Windows CITIZEN S851 Cash Drawer 2 Ethernet Windows |

| Series of Model | OS | Interface | Logical Name |
|-----------------|---------|-----------|--|
| CT-S851II | Windows | Serial | CITIZEN S851II Serial Windows CITIZEN S851II Cash Drawer 1 Serial Windows CITIZEN S851II Cash Drawer 2 Serial Windows |
| | | USB | CITIZEN S851II USB Windows CITIZEN S851II Cash Drawer 1 USB Windows CITIZEN S851II Cash Drawer 2 USB Windows |
| | | Ethernet | CITIZEN S851II Ethernet Windows CITIZEN S851II Cash Drawer 1 Ethernet Windows CITIZEN S851II Cash Drawer 2 Ethernet Windows |
| CT-S851III | Windows | Serial | CITIZEN S851III Serial Windows CITIZEN S851III Cash Drawer 1 Serial Windows CITIZEN S851III Cash Drawer 2 Serial Windows |
| | | USB | CITIZEN S851III USB Windows CITIZEN S851III Cash Drawer 1 USB Windows CITIZEN S851III Cash Drawer 2 USB Windows |
| | | Ethernet | CITIZEN S851III Ethernet Windows CITIZEN S851III Cash Drawer 1 Ethernet Windows CITIZEN S851III Cash Drawer 2 Ethernet Windows |
| CT-S751 | Windows | Serial | CITIZEN S751 Serial Windows CITIZEN S751 Cash Drawer 1 Serial Windows CITIZEN S751 Cash Drawer 2 Serial Windows |
| | | USB | CITIZEN S751 USB Windows CITIZEN S751 Cash Drawer 1 USB Windows CITIZEN S751 Cash Drawer 2 USB Windows |
| | | Ethernet | CITIZEN S751 Ethernet Windows CITIZEN S751 Cash Drawer 1 Ethernet Windows CITIZEN S751 Cash Drawer 2 Ethernet Windows |
| CT-S2000 | Windows | Serial | CITIZEN S2000 Serial Windows CITIZEN S2000 Cash Drawer 1 Serial Windows CITIZEN S2000 Cash Drawer 2 Serial Windows |
| | | USB | CITIZEN S2000 USB Windows CITIZEN S2000 Cash Drawer 1 USB Windows CITIZEN S2000 Cash Drawer 2 USB Windows |
| | | Ethernet | CITIZEN S2000 Ethernet Windows CITIZEN S2000 Cash Drawer 1 Ethernet Windows CITIZEN S2000 Cash Drawer 2 Ethernet Windows |
| CT-S4000 | Windows | Serial | CITIZEN S4000 Serial Windows CITIZEN S4000 Cash Drawer 1 Serial Windows CITIZEN S4000 Cash Drawer 2 Serial Windows |
| | | USB | CITIZEN S4000 USB Windows CITIZEN S4000 Cash Drawer 1 USB Windows CITIZEN S4000 Cash Drawer 2 USB Windows |
| | | Ethernet | CITIZEN S4000 Ethernet Windows CITIZEN S4000 Cash Drawer 1 Ethernet Windows CITIZEN S4000 Cash Drawer 2 Ethernet Windows |
| CT-S4500 | Windows | Serial | CITIZEN S4500 Serial Windows CITIZEN S4500 Cash Drawer 1 Serial Windows CITIZEN S4500 Cash Drawer 2 Serial Windows |
| | | USB | CITIZEN S4500 USB Windows CITIZEN S4500 Cash Drawer 1 USB Windows CITIZEN S4500 Cash Drawer 2 USB Windows |
| | | Ethernet | CITIZEN S4500 Ethernet Windows CITIZEN S4500 Cash Drawer 1 Ethernet Windows CITIZEN S4500 Cash Drawer 2 Ethernet Windows |
| PMU2300III | Windows | Serial | CITIZEN PMU2300III Serial Windows |
| | | USB | CITIZEN PMU2300III USB Windows |

2.2.2 Applicable driver (Linux)

| Series of Model | OS | Interface | Logical Name |
|-----------------|-------|-----------|---|
| CT-D101 | Linux | Serial | CITIZEN D101 Serial Linux CITIZEN D101 Cash Drawer 1 Serial Linux CITIZEN D101 Cash Drawer 2 Serial Linux |
| | | USB | CITIZEN D101 USB Linux CITIZEN D101 Cash Drawer 1 USB Linux CITIZEN D101 Cash Drawer 2 USB Linux |
| | | Ethernet | CITIZEN D101 Ethernet Linux CITIZEN D101 Cash Drawer 1 Ethernet Linux CITIZEN D101 Cash Drawer 2 Ethernet Linux |
| CT-D150 | Linux | Serial | CITIZEN D150 Serial Linux CITIZEN D150 Cash Drawer 1 Serial Linux CITIZEN D150 Cash Drawer 2 Serial Linux |
| | | USB | CITIZEN D150 USB Linux CITIZEN D150 Cash Drawer 1 USB Linux CITIZEN D150 Cash Drawer 2 USB Linux |
| | | Ethernet | CITIZEN D150 Ethernet Linux CITIZEN D150 Cash Drawer 1 Ethernet Linux CITIZEN D150 Cash Drawer 2 Ethernet Linux |
| CT-D151 | Linux | Serial | CITIZEN D151 Serial Linux CITIZEN D151Cash Drawer 1 Serial Linux CITIZEN D151 Cash Drawer 2 Serial Linux |
| | | USB | CITIZEN D151 USB Linux CITIZEN D151 Cash Drawer 1 USB Linux CITIZEN D151 Cash Drawer 2 USB Linux |
| | | Ethernet | CITIZEN D151 Ethernet Linux CITIZEN D151 Cash Drawer 1 Ethernet Linux CITIZEN D151 Cash Drawer 2 Ethernet Linux |
| CT-E301 | Linux | Serial | CITIZEN E301 Serial Linux CITIZEN E301 Cash Drawer 1 Serial Linux CITIZEN E301 Cash Drawer 2 Serial Linux |
| | | USB | CITIZEN E301 USB Linux CITIZEN E301 Cash Drawer 1 USB Linux CITIZEN E301 Cash Drawer 2 USB Linux |
| | | Ethernet | CITIZEN E301 Ethernet Linux CITIZEN E301 Cash Drawer 1 Ethernet Linux CITIZEN E301 Cash Drawer 2 Ethernet Linux |
| CT-E351 | Linux | Serial | CITIZEN E351 Serial Linux CITIZEN E351 Cash Drawer 1 Serial Linux CITIZEN E351 Cash Drawer 2 Serial Linux |
| | | USB | CITIZEN E351 USB Linux CITIZEN E351 Cash Drawer 1 USB Linux CITIZEN E351 Cash Drawer 2 USB Linux |
| | | Ethernet | CITIZEN E351 Ethernet Linux CITIZEN E351 Cash Drawer 1 Ethernet Linux CITIZEN E351 Cash Drawer 2 Ethernet Linux |
| CT-E601 | Linux | Serial | CITIZEN E601 Serial Linux CITIZEN E601 Cash Drawer 1 Serial Linux CITIZEN E601 Cash Drawer 2 Serial Linux |
| | | USB | CITIZEN E601 USB Linux CITIZEN E601 Cash Drawer 1 USB Linux CITIZEN E601 Cash Drawer 2 USB Linux |
| | | Ethernet | CITIZEN E601 Ethernet Linux CITIZEN E601 Cash Drawer 1 Ethernet Linux CITIZEN E601 Cash Drawer 2 Ethernet Linux |
| CT-E651 | Linux | Serial | CITIZEN E651 Serial Linux CITIZEN E651 Cash Drawer 1 Serial Linux CITIZEN E651 Cash Drawer 2 Serial Linux |
| | | USB | CITIZEN E651 USB Linux CITIZEN E651 Cash Drawer 1 USB Linux CITIZEN E651 Cash Drawer 2 USB Linux |

| Series of Model | OS | Interface | Logical Name |
|-------------------------|-------|-----------|---|
| | | Ethernet | CITIZEN E651 Ethernet Linux CITIZEN E651 Cash Drawer 1 Ethernet Linux CITIZEN E651 Cash Drawer 2 Ethernet Linux |
| CT-S251 | Linux | Serial | CITIZEN S251 Serial Linux CITIZEN S251 Cash Drawer 1 Serial Linux CITIZEN S251 Cash Drawer 2 Serial Linux |
| | | USB | CITIZEN S251 USB Linux CITIZEN S251 Cash Drawer 1 USB Linux CITIZEN S251 Cash Drawer 2 USB Linux |
| | | Ethernet | CITIZEN S251 Ethernet Linux CITIZEN S251 Cash Drawer 1 Ethernet Linux CITIZEN S251 Cash Drawer 2 Ethernet Linux |
| CT-S281/281BT/ 281BD | Linux | Serial | CITIZEN S281 Serial Linux CITIZEN S281 Cash Drawer 1 Serial Linux |
| | | USB | CITIZEN S281 USB Linux CITIZEN S281 Cash Drawer 1 USB Linux |
| CT-S310 | Linux | Serial | CITIZEN S310 Serial Linux CITIZEN S310 Cash Drawer 1 Serial Linux CITIZEN S310 Cash Drawer 2 Serial Linux |
| | | USB | CITIZEN S310 USB Linux CITIZEN S310 Cash Drawer 1 USB Linux CITIZEN S310 Cash Drawer 2 USB Linux |
| | | Ethernet | CITIZEN S310 Ethernet Linux CITIZEN S310 Cash Drawer 1 Ethernet Linux CITIZEN S310 Cash Drawer 2 Ethernet Linux |
| CT-S310II | Linux | Serial | CITIZEN S310II Serial Linux CITIZEN S310II Cash Drawer 1 Serial Linux CITIZEN S310II Cash Drawer 2 Serial Linux |
| | | USB | CITIZEN S310II USB Linux CITIZEN S310II Cash Drawer 1 USB Linux CITIZEN S310II Cash Drawer 2 USB Linux |
| | | Ethernet | CITIZEN S310II Ethernet Windows CITIZEN S310II Cash Drawer 1 Ethernet Linux CITIZEN S310II Cash Drawer 2 Ethernet Linux |
| CT-S601 | Linux | Serial | CITIZEN S601 Serial Linux CITIZEN S601 Cash Drawer 1 Serial Linux CITIZEN S601 Cash Drawer 2 Serial Linux |
| | | USB | CITIZEN S601 USB Linux CITIZEN S601 Cash Drawer 1 USB Linux CITIZEN S601 Cash Drawer 2 USB Linux |
| | | Ethernet | CITIZEN S601 Ethernet Linux CITIZEN S601 Cash Drawer 1 Ethernet Linux CITIZEN S601 Cash Drawer 2 Ethernet Linux |
| CT-S601II | Linux | Serial | CITIZEN S601II Serial Linux CITIZEN S601II Cash Drawer 1 Serial Linux CITIZEN S601II Cash Drawer 2 Serial Linux |
| | | USB | CITIZEN S601II USB Linux CITIZEN S601II Cash Drawer 1 USB Linux CITIZEN S601II Cash Drawer 2 USB Linux |
| | | Ethernet | CITIZEN S601II Ethernet Linux CITIZEN S601II Cash Drawer 1 Ethernet Linux CITIZEN S601II Cash Drawer 2 Ethernet Linux |
| CT-S651 | Linux | Serial | CITIZEN S651 Serial Linux CITIZEN S651 Cash Drawer 1 Serial Linux CITIZEN S651 Cash Drawer 2 Serial Linux |
| | | USB | CITIZEN S651 USB Linux CITIZEN S651 Cash Drawer 1 USB Linux CITIZEN S651 Cash Drawer 2 USB Linux |
| | | Ethernet | CITIZEN S651 Ethernet Linux CITIZEN S651 Cash Drawer 1 Ethernet Linux CITIZEN S651 Cash Drawer 2 Ethernet Linux |

| Series of Model | OS | Interface | Logical Name |
|-----------------|-------|-----------|--|
| CT-S651II | Linux | Serial | CITIZEN S651II Serial Linux CITIZEN S651II Cash Drawer 1 Serial Linux CITIZEN S651II Cash Drawer 2 Serial Linux |
| | | USB | CITIZEN S651II USB Linux CITIZEN S651II Cash Drawer 1 USB Linux CITIZEN S651II Cash Drawer 2 USB Linux |
| | | Ethernet | CITIZEN S651II Ethernet Linux CITIZEN S651II Cash Drawer 1 Ethernet Linux CITIZEN S651II Cash Drawer 2 Ethernet Linux |
| CT-S801 | Linux | Serial | CITIZEN S801 Serial Linux CITIZEN S801 Cash Drawer 1 Serial Linux CITIZEN S801 Cash Drawer 2 Serial Linux |
| | | USB | CITIZEN S801 USB Linux CITIZEN S801 Cash Drawer 1 USB Linux CITIZEN S801 Cash Drawer 2 USB Linux |
| | | Ethernet | CITIZEN S801 Ethernet Linux CITIZEN S801 Cash Drawer 1 Ethernet Linux CITIZEN S801 Cash Drawer 2 Ethernet Linux |
| CT-S801II | Linux | Serial | CITIZEN S801II Serial Linux CITIZEN S801II Cash Drawer 1 Serial Linux CITIZEN S801II Cash Drawer 2 Serial Linux |
| | | USB | CITIZEN S801II USB Linux CITIZEN S801II Cash Drawer 1 USB Linux CITIZEN S801II Cash Drawer 2 USB Linux |
| | | Ethernet | CITIZEN S801II Ethernet Linux CITIZEN S801II Cash Drawer 1 Ethernet Linux CITIZEN S801II Cash Drawer 2 Ethernet Linux |
| CT-S801III | Linux | Serial | CITIZEN S801III Serial Linux CITIZEN S801III Cash Drawer 1 Serial Linux CITIZEN S801III Cash Drawer 2 Serial Linux |
| | | USB | CITIZEN S801III USB Linux CITIZEN S801III Cash Drawer 1 USB Linux CITIZEN S801III Cash Drawer 2 USB Linux |
| | | Ethernet | CITIZEN S801III Ethernet Linux CITIZEN S801III Cash Drawer 1 Ethernet Linux CITIZEN S801III Cash Drawer 2 Ethernet Linux |
| CT-S851 | Linux | Serial | CITIZEN S851 Serial Linux CITIZEN S851 Cash Drawer 1 Serial Linux CITIZEN S851 Cash Drawer 2 Serial Linux |
| | | USB | CITIZEN S851 USB Linux CITIZEN S851 Cash Drawer 1 USB Linux CITIZEN S851 Cash Drawer 2 USB Linux |
| | | Ethernet | CITIZEN S851 Ethernet Linux CITIZEN S851 Cash Drawer 1 Ethernet Linux CITIZEN S851 Cash Drawer 2 Ethernet Linux |
| CT-S851II | Linux | Serial | CITIZEN S851II Serial Linux CITIZEN S851II Cash Drawer 1 Serial Linux CITIZEN S851II Cash Drawer 2 Serial Linux |
| | | USB | CITIZEN S851II USB Linux CITIZEN S851II Cash Drawer 1 USB Linux CITIZEN S851II Cash Drawer 2 USB Linux |
| | | Ethernet | CITIZEN S851II Ethernet Linux CITIZEN S851II Cash Drawer 1 Ethernet Linux CITIZEN S851II Cash Drawer 2 Ethernet Linux |
| CT-S851III | Linux | Serial | CITIZEN S851III Serial Linux CITIZEN S851III Cash Drawer 1 Serial Linux CITIZEN S851III Cash Drawer 2 Serial Linux |
| | | USB | CITIZEN S851III USB Linux CITIZEN S851III Cash Drawer 1 USB Linux CITIZEN S851III Cash Drawer 2 USB Linux |
| | | Ethernet | CITIZEN S851III Ethernet Linux CITIZEN S851III Cash Drawer 1 Ethernet Linux CITIZEN S851III Cash Drawer 2 Ethernet Linux |

| Series of Model | OS | Interface | Logical Name |
|-----------------|-------|-----------|--|
| CT-S751 | Linux | Serial | CITIZEN S751 Serial Linux CITIZEN S751 Cash Drawer 1 Serial Linux CITIZEN S751 Cash Drawer 2 Serial Linux |
| | | USB | CITIZEN S751 USB Linux CITIZEN S751 Cash Drawer 1 USB Linux CITIZEN S751 Cash Drawer 2 USB Linux |
| | | Ethernet | CITIZEN S751 Ethernet Linux CITIZEN S751 Cash Drawer 1 Ethernet Linux CITIZEN S751 Cash Drawer 2 Ethernet Linux |
| CT-S2000 | Linux | Serial | CITIZEN S2000 Serial Linux CITIZEN S2000 Cash Drawer 1 Serial Linux CITIZEN S2000 Cash Drawer 2 Serial Linux |
| | | USB | CITIZEN S2000 USB Linux CITIZEN S2000 Cash Drawer 1 USB Linux CITIZEN S2000 Cash Drawer 2 USB Linux |
| | | Ethernet | CITIZEN S2000 Ethernet Linux CITIZEN S2000 Cash Drawer 1 Ethernet Linux CITIZEN S2000 Cash Drawer 2 Ethernet Linux |
| CT-S4000 | Linux | Serial | CITIZEN S4000 Serial Linux CITIZEN S4000 Cash Drawer 1 Serial Linux CITIZEN S4000 Cash Drawer 2 Serial Linux |
| | | USB | CITIZEN S4000 USB Linux CITIZEN S4000 Cash Drawer 1 USB Linux CITIZEN S4000 Cash Drawer 2 USB Linux |
| | | Ethernet | CITIZEN S4000 Ethernet Linux CITIZEN S4000 Cash Drawer 1 Ethernet Linux CITIZEN S4000 Cash Drawer 2 Ethernet Linux |
| CT-S4500 | Linux | Serial | CITIZEN S4500 Serial Linux CITIZEN S4500 Cash Drawer 1 Serial Linux CITIZEN S4500 Cash Drawer 2 Serial Linux |
| | | USB | CITIZEN S4500 USB Linux CITIZEN S4500 Cash Drawer 1 USB Linux CITIZEN S4500 Cash Drawer 2 USB Linux |
| | | Ethernet | CITIZEN S4500 Ethernet Linux CITIZEN S4500 Cash Drawer 1 Ethernet Linux CITIZEN S4500 Cash Drawer 2 Ethernet Linux |
| PMU2300III | Linux | Serial | CITIZEN PMU2300III Serial Linux |
| | | USB | CITIZEN PMU2300III USB Linux |

3. JavaPOS Driver Setting

3.1. Cnfigration Operation

In order for Control Object to be connected to Service Object exactly and initialize the corresponding device, the JavaPOS control requires data for the jpos.xml file. The setting data is described as a set of the properties in JposEntry, and it is stored in a key, the pair of the value.

The following is a jpos.xml taking CT-S801II (printer and cash drawer) as an example.

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE JposEntries PUBLIC "-//JavaPOS//DTD//EN"
        "jpos/res/jcl.dtd">
<JposEntries>

  <JposEntry logicalName="CITIZEN S801II USB Windows">
    <creation factoryClass="jpos.loader.simple.SimpleJPoSServiceInstanceFactory"
      serviceClass="jpos.services.Citizen801IIPrinterServices"/>
    <vendor name="CITIZEN" url="http://www.citizen-systems.co.jp"/>
    <jpos category="POSPrinter" version="1.14"/>
    <product description="Jpos printer driver" name="CITIZEN CT-S801II POS printer"
      url="http://www.citizen-systems.co.jp"/>

    <prop name="PhysicalDevice" type="String" value="CITIZEN CT-S801II POS Printer"/>
    <prop name="PortName" type="String" value="USB001"/>
    <prop name="PrinterLanguage" type="String" value="8"/>
    <prop name="Columns" type="String" value="48"/>
    <prop name="CharacterSet" type="String" value="932"/>
    <prop name="UseNVRAM" type="String" value="0"/>
    <prop name="PaperModel" type="String" value="80mm"/>
    <prop name="deviceBus" type="String" value="USB"/>
    <prop name="ResponseCheck" type="String" value="1"/>
    <prop name="Grayscale" type="String" value="0"/>
  </JposEntry>

  <JposEntry logicalName="CITIZEN S801II Cash Drawer 1 USB Windows">
    <creation factoryClass="jpos.loader.simple.SimpleJPoSServiceInstanceFactory"
      serviceClass="jpos.services.CashDrawerService1"/>
    <vendor name="CITIZEN" url="http://www.citizen-systems.co.jp"/>
    <jpos category="CashDrawer" version="1.14"/>
    <product description="Jpos Cash Drawer Driver" name="CITIZEN CT-S801II Cash Drawer"
      url="http://www.citizen-systems.co.jp"/>

    <prop name="PhysicalDevice" type="String" value="CITIZEN CT-S801II Cash Drawer"/>
    <prop name="deviceBus" type="String" value="USB"/>
    <prop name="PortName" type="String" value="USB001"/>
    <prop name="OnTime" type="String" value="5"/>
    <prop name="Pin3" type="String" value="1"/>
    <prop name="CapStatus" type="String" value="1"/>
  </JposEntry>

</JposEntries>
```

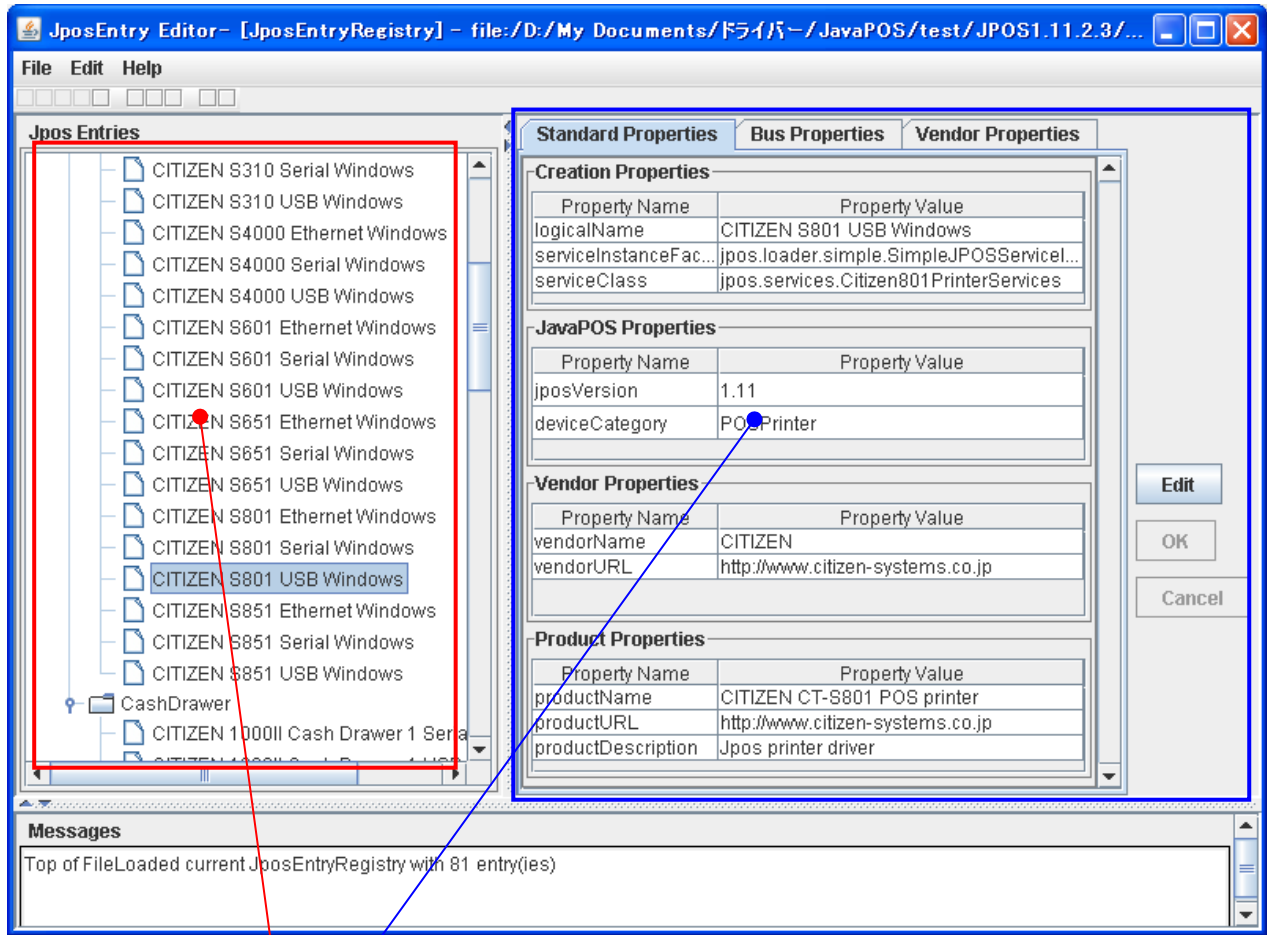
It is registered with an attached jpos.xml file according to a model, the OS, a connection method. Whether you revise it in text editor or please revise it with the setting tool (JCL) of the installation folder.

3.2. JavaPOS Driver Setting Tool (JCL)

1) Please execute the following files in the installation folder. The following screen is displayed.

Windows : JPOSConfig.bat
Linux : JPOSConfig.sh

Setting Tool Main Screen



Setting view: Indicates the setting of each device (Direct change of setting is available).

Device view: Tree of physical devices and logical devices is indicated.

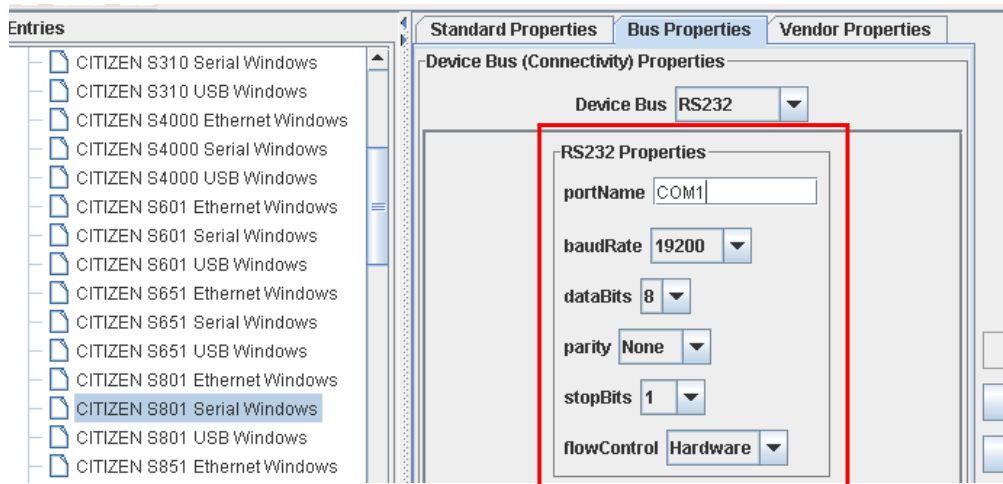
- 2) Select a logical device from the Device view. Please select a "Bus Properties" or "Vendor Properties" tab of the setting view.
- 3) Click "Edit" button, and the revision of the value is enabled.
- 4) Click "OK" button after having revised a value.
- 5) Click "Save JposEntryRegistry" from the File menu for registration.

3.3. Connection setting

3.3.1 Serial connection (Windows)

| | |
|---|---|
| <prop name="portName" type="String" value="COM1"/> | --- Set port name |
| <prop name="parity" type="String" value="None"/> | --- Set parity |
| <prop name="flowControl" type="String" value="Hardware"/> | --- Set flow control (Hardware, Xon/Xoff) |
| <prop name="stopBits" type="String" value="1"/> | --- Set stop bits |
| <prop name="baudRate" type="String" value="19200"/> | --- Set baud rate |

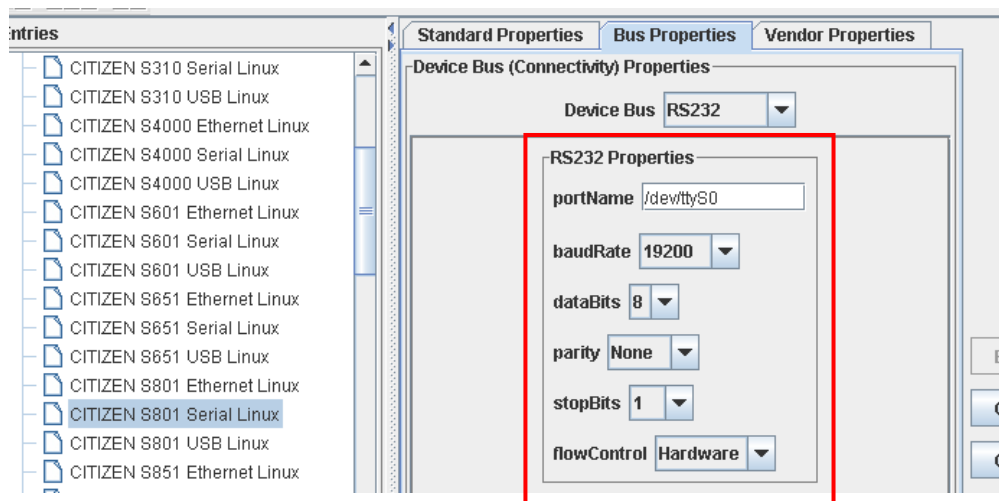
Setting Tool Screen



3.3.2 Serial connection (Linux)

| | |
|---|---|
| <prop name="portName" type="String" value="/dev/ttyS0"/> | --- Set port name |
| <prop name="parity" type="String" value="None"/> | --- Set parity |
| <prop name="flowControl" type="String" value="Hardware"/> | --- Set flow control (Hardware, Xon/Xoff) |
| <prop name="stopBits" type="String" value="1"/> | --- Set stop bits |
| <prop name="baudRate" type="String" value="19200"/> | --- Set baud rate |

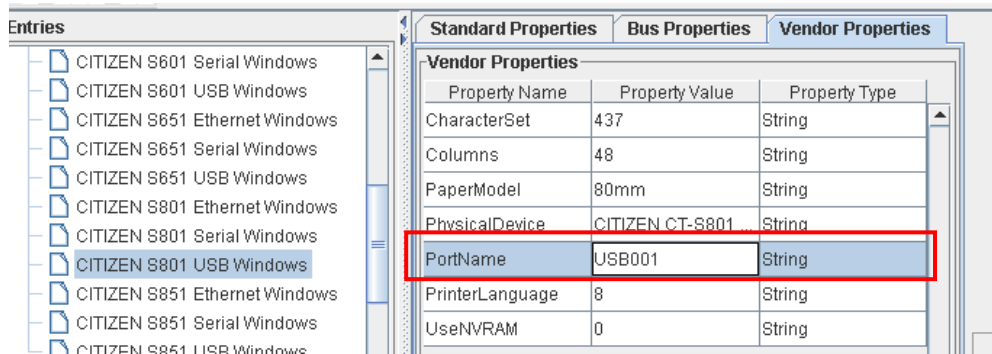
Setting Tool Screen



3.3.3 USB connection (Windows)

<prop name="PortName" type="String" value="USB001"/> --- Set port name

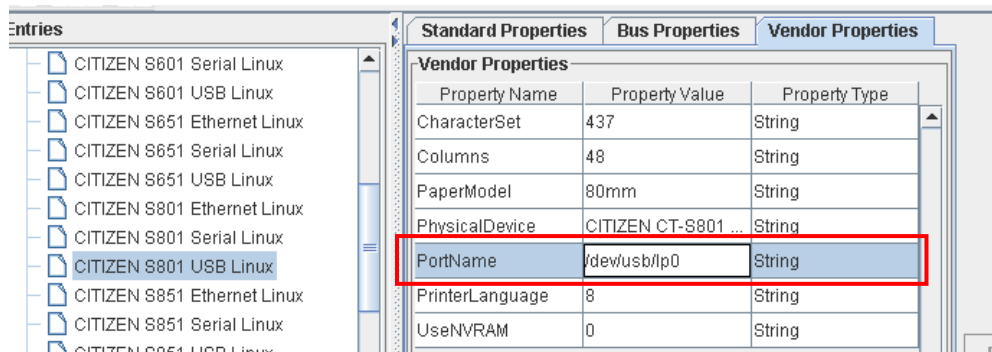
Setting Tool Screen



3.3.4 USB connection (Linux)

<prop name="PortName" type="String" value="/dev/usb/lp0"/> --- Set port name

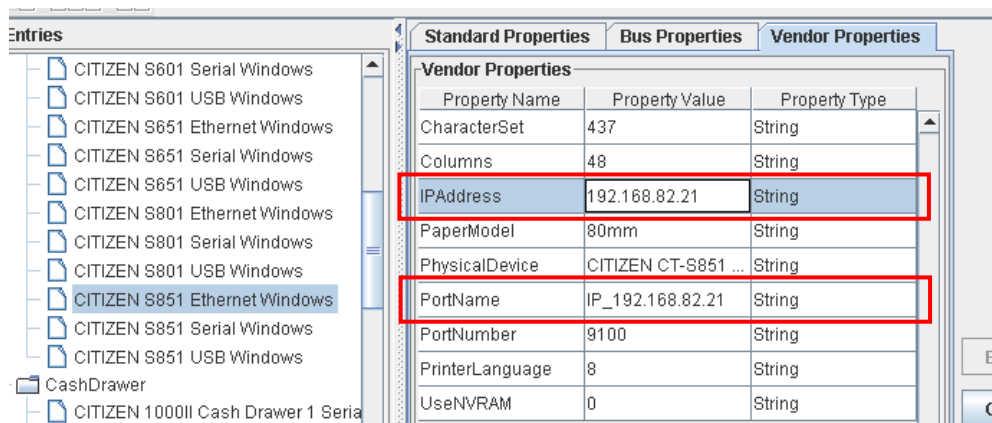
Setting Tool Screen



3.3.5 Network connection (Windows, Linux)

<prop name="PortName" type="String" value="IP_192.168.82.21"/> --- Set port name
 <prop name="IPAddress" type="String" value="192.168.82.21"/> --- Set IP address
 <prop name="PortNumber" type="String" value="9100"/> --- Set port number

Setting Tool Screen



3.4. Printer function setting

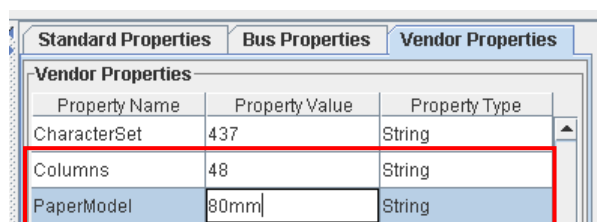
For the details, refer to the chapter of "[4.POS Printer Service Object](#)".

3.4.1 Size of Paper width used and the maximum number of columns per line

This setting is interlocked with the default value of the "RecLineChars/RecLineCharsList" property.

```
<prop name="Columns" type="String" value="48"/>          --- Set maximum columns
<prop name="PaperModel" type="String" value="80mm"/>    --- Set paper width
```

Setting Tool Screen



Specify the size of paper width used (PaperModel) and the maximum number of columns per line (Columns) referring to the following table.

CT-D101 Series

| Paper Model | columns | RecLineWidth | RecLineChars | RecLineCharsList |
|-------------|---------|--------------|--------------|------------------|
| 80mm | 58mm | 30 | 360 | 30 |
| | | 32 | 384 | 32 |
| | | 35 | 420 | 35 |
| | | 42 | 504 | 42 |
| | | 48 | 576 | 48 |

CT-D150 Series

| Paper Model | columns | RecLineWidth | RecLineChars | RecLineCharsList |
|-------------|---------|--------------|--------------|------------------|
| 80mm | 58mm | 30 | 360 | 30 |
| | | 32 | 384 | 32 |
| | | 35 | 420 | 35 |
| | | 42 | 504 | 42 |
| | | 48 | 576 | 48 |

CT-D151 Series

| Paper Model | columns | RecLineWidth | RecLineChars | RecLineCharsList |
|-------------|---------|--------------|--------------|------------------|
| 80mm | 58mm | 30 | 360 | 30 |
| | | 32 | 384 | 32 |
| | | 35 | 420 | 35 |
| | | 42 | 504 | 42 |
| | | 48 | 576 | 48 |

CT-E301 Series

| Paper Model | columns | RecLineWidth | RecLineChars | RecLineCharsList |
|-------------|---------|--------------|--------------|------------------|
| 80mm | 58mm | 30 | 360 | 30 |
| | | 32 | 384 | 32 |
| | | 35 | 420 | 35 |
| | | 42 | 504 | 42 |
| | | 48 | 576 | 48 |

CT-E351 Series

| Paper Model | columns | RecLineWidth | RecLineChars | RecLineCharsList |
|-------------|---------|--------------|--------------|------------------|
| 80mm | 58mm | 30 | 360 | 30, 40, 45 |
| | | 32 | 384 | 32, 42, 48 |
| | | 35 | 420 | 35, 46, 52 |
| | | 42 | 504 | 42, 56, 63 |
| | | 48 | 576 | 48, 64, 72 |

CT-E601 Series

| Paper Model | columns | RecLineWidth | RecLineChars | RecLineCharsList |
|-------------|---------|--------------|--------------|------------------|
| 80mm | 58mm | 30 | 360 | 30, 40, 45 |
| | | 32 | 384 | 32, 42, 48 |
| | | 35 | 420 | 35, 46, 52 |
| | | 42 | 504 | 42, 56, 63 |
| | | 48 | 576 | 48, 64, 72 |

CT-E651 Series

| Paper Model | columns | RecLineWidth | RecLineChars | RecLineCharsList |
|-------------|---------|--------------|--------------|------------------|
| 80mm | 58mm | 30 | 360 | 30, 40, 45 |
| | | 32 | 384 | 32, 42, 48 |
| | | 35 | 420 | 35, 46, 52 |
| | | 42 | 504 | 42, 56, 63 |
| | | 48 | 576 | 48, 64, 72 |

CT-S251 Series

| Paper Model | columns | RecLineWidth | RecLineChars | RecLineCharsList |
|-------------|---------|--------------|--------------|------------------|
| 58mm | | 30 | 360 | 30, 40, 45 |
| | | 32 | 384 | 32, 42, 48 |
| | | 35 | 420 | 35, 46, 52 |
| | | 36 | 432 | 36, 48, 54 |

CT-S281 Series

| Paper Model | columns | RecLineWidth | RecLineChars | RecLineCharsList |
|-------------|---------|--------------|--------------|------------------|
| 58mm | 32 | 384 | 32 | 32, 42, 48 |

CT-S310 Series

| Paper Model | columns | RecLineWidth | RecLineChars | RecLineCharsList |
|-------------|---------|--------------|--------------|------------------|
| 80mm | 58mm | 30 | 360 | 30, 40, 45 |
| | | 32 | 384 | 32, 42, 48 |
| | | 42 | 504 | 42, 56, 63 |
| | | 48 | 576 | 48, 64, 72 |

CT-S310II Series

| Paper Model | columns | RecLineWidth | RecLineChars | RecLineCharsList |
|-------------|---------|--------------|--------------|------------------|
| 80mm | 58mm | 30 | 360 | 30, 40, 45 |
| | | 32 | 384 | 32, 42, 48 |
| | | 35 | 420 | 35, 46, 52 |
| | | 42 | 504 | 42, 56, 63 |
| | | 48 | 576 | 48, 64, 72 |

CT-S601/651/801/851 Series

| Paper Model | | | | columns | RecLineWidth | RecLineChars | RecLineCharsList |
|-------------|------|------|------|---------|--------------|--------------|------------------|
| 83mm | 80mm | 60mm | 58mm | 30 | 360 | 30 | 30, 40, 45 |
| | | | | 32 | 384 | 32 | 32, 42, 48 |
| | | | | 35 | 420 | 35 | 35, 46, 52 |
| | | | | 36 | 436 | 36 | 36, 48, 54 |
| | | | | 42 | 512 | 42 | 42, 56, 64 |
| | | | | 48 | 576 | 48 | 48, 64, 72 |
| | | | | 53 | 640 | 53 | 53, 71, 80 |

CT-S601II/651II/801II/851II Series

| Paper Model | | | | columns | RecLineWidth | RecLineChars | RecLineCharsList |
|-------------|------|------|------|---------|--------------|--------------|------------------|
| 83mm | 80mm | 60mm | 58mm | 30 | 360 | 30 | 30, 40, 45 |
| | | | | 32 | 384 | 32 | 32, 42, 48 |
| | | | | 35 | 420 | 35 | 35, 46, 52 |
| | | | | 36 | 436 | 36 | 36, 48, 54 |
| | | | | 42 | 512 | 42 | 42, 56, 64 |
| | | | | 48 | 576 | 48 | 48, 64, 72 |
| | | | | 53 | 640 | 53 | 53, 71, 80 |

CT-S801III/851III Series

| Paper Model | | | | columns | RecLineWidth | RecLineChars | RecLineCharsList |
|-------------|------|------|------|---------|--------------|--------------|------------------|
| 83mm | 80mm | 60mm | 58mm | 30 | 360 | 30 | 30, 40, 45 |
| | | | | 32 | 384 | 32 | 32, 42, 48 |
| | | | | 35 | 420 | 35 | 35, 46, 52 |
| | | | | 36 | 436 | 36 | 36, 48, 54 |
| | | | | 42 | 512 | 42 | 42, 56, 64 |
| | | | | 48 | 576 | 48 | 48, 64, 72 |
| | | | | 53 | 640 | 53 | 53, 71, 80 |

CT-S751 Series

| 8751 Series | | | | | |
|-------------|------|---------|--------------|--------------|------------------|
| Paper Model | | columns | RecLineWidth | RecLineChars | RecLineCharsList |
| 80mm | 58mm | 30 | 360 | 30 | 30, 40, 45 |
| | | 32 | 384 | 32 | 32, 42, 48 |
| | | 35 | 420 | 35 | 35, 46, 52 |
| | | 42 | 504 | 42 | 42, 56, 63 |
| | | 48 | 576 | 48 | 48, 64, 72 |

CT-S2000 Series

| Paper Model | | | | columns | RecLineWidth | RecLineChars | RecLineCharsList |
|-------------|------|------|------|---------|--------------|--------------|------------------|
| 83mm | 80mm | 60mm | 58mm | 30 | 360 | 30 | 30, 40, 45 |
| | | | | 32 | 384 | 32 | 32, 42, 48 |
| | | | | 35 | 420 | 35 | 35, 46, 52 |
| | | | | 36 | 436 | 36 | 36, 48, 54 |
| | | | | 42 | 512 | 42 | 42, 56, 64 |
| | | | | 48 | 576 | 48 | 48, 64, 72 |
| | | | | 53 | 640 | 53 | 53, 71, 80 |

CT-S4000 Series

| Paper Model | | | | columns | RecLineWidth | RecLineChars | RecLineCharsList |
|-------------|--------|------|--|---------|--------------|--------------|------------------|
| 112mm | 82.5mm | 80mm | | 42 | 512 | 42 | 42, 56, 64 |
| | | | | 48 | 576 | 48 | 48, 64, 72 |
| | | | | 55 | 660 | 55 | 55, 73, 82 |
| | | | | 60 | 720 | 60 | 60, 80, 90 |
| | | | | 69 | 832 | 69 | 69, 92, 104 |

CT-S4500 系

| Paper Model | | | | columns | RecLineWidth | RecLineChars | RecLineCharsList |
|-------------|--------|------|------|---------|--------------|--------------|------------------|
| 112mm | 82.5mm | 80mm | 58mm | 30 | 360 | 30 | 30, 40, 45 |
| | | | | 32 | 384 | 32 | 32, 42, 48 |
| | | | | 35 | 420 | 35 | 35, 46, 52 |
| | | | | 36 | 432 | 36 | 36, 48, 54 |
| | | | | 42 | 504 | 42 | 42, 56, 63 |
| | | | | 48 | 576 | 48 | 48, 64, 72 |
| | | | | 55 | 660 | 55 | 55, 73, 82 |
| | | | | 60 | 720 | 60 | 60, 80, 90 |
| | | | | 69 | 832 | 69 | 69, 92, 104 |

PMU2300III Series

| Paper Model | columns | RecLineWidth | RecLineChars | RecLineCharsList |
|-------------|---------|--------------|--------------|------------------|
| 80mm | 42 | 512 | 42 | 42, 56, 63 |
| | 48 | 576 | 48 | 48, 64, 72 |

PMU3300 Series

| Paper Model | | | columns | RecLineWidth | RecLineChars | RecLineCharsList |
|-------------|------|------|---------|--------------|--------------|------------------|
| 80mm | 60mm | 58mm | 30 | 360 | 30 | 30, 40, 45 |
| | | | 32 | 384 | 32 | 32, 42, 48 |
| | | | 35 | 420 | 35 | 35, 46, 52 |
| | | | 36 | 432 | 36 | 36, 48, 54 |
| | | | 42 | 512 | 42 | 42, 56, 64 |
| | | | 48 | 576 | 48 | 48, 64, 72 |

3.4.2 Other printer setting

```
<prop name="PrinterLanguage" type="String" value="0"/>
<prop name="CharacterSet" type="String" value="437"/>
<prop name="UseNVRAM" type="String" value="0"/>
<prop name="ResponseCheck" type="String" value="1"/>
```

```
<prop name="Grayscale" type="String" value="0"/>
```

```
--- Set printer language
--- Set character set
--- Set setbitmap mode
--- Set function to detect the completion of
    printing
--- Set grayscale printing
```

Setting Tool Screen

| Property Name | Property Value | Property Type |
|-----------------|-----------------------|---------------|
| CharacterSet | 437 | String |
| Columns | 48 | String |
| Grayscale | 0 | String |
| PaperModel | 80mm | String |
| PhysicalDevice | CITIZEN CT-S801III... | String |
| PortName | USB001 | String |
| PrinterLanguage | 0 | String |
| ResponseCheck | 1 | String |
| UseNVRAM | 0 | String |

Settings of each item are as shown below.

International Char (PrinterLanguage)

Specify an international character table to use. (Support content differs by the model)

Set value: U.S.A(0)/ France(1)/ Germany(2)/ U.K.(3)/ DenmarkI(4)/ Sweden(5)/

Italy(6)/ SpainI(7)/ Japan(8)/ Norway(9)/ Denmark II(10)/ Spain II(11)/
Latin America(12)/ Korea(13)

Code Page (CharacterSet)

Designate code page. (Support content differs by the model)

Set value: 437 / 850 / 852 / 857 / 858 / 860 / 863 / 864 / 865 / 866 / 874 / 932 / 936 / 998 /
999 / 1252 / 65001 / 255(User Defined)

SetBitmap Mode (UseNVRAM)

Specify the bit image mode of the SetBitmap method. (Support content differs by the model)

Set value: Raster bit image mode(0) / NV (Unuse key code) mode(1) /
NV (Use key code) mode(2)

Function to detect the completion of printing (ResponseCheck)

In the support model, specify the function to detect the completion of printing.

Set value: Enable(1) / Disable(0)

Grayscale printing (Grayscale)

In the support model, specify the grayscale printing.

Set value: Enable(1) / Disable(0)

3.5. Cash Drawer function setting

3.5.1 Cash Drawer Connection setting

Please set connection setting same as printer which Cash Drawer is connected to.

Please refer to "[3.3.Connection setting](#)" for printer connection setting.

3.5.2 Other Cash Drawer setting

```
<prop name="OnTime" type="String" value="5"/>
<prop name="Pin3" type="String" value="1"/>
<prop name="CapStatus" type="String" value="1"/>
```

```
--- Set signal length
--- Pin3 status of Drawer opened
--- Set Pin3 connected
```

Setting Tool Screen

| Property Name | Property Value | Property Type |
|----------------|---------------------|---------------|
| CapStatus | 1 | String |
| OnTime | 5 | String |
| PhysicalDevice | CITIZEN CT-S801 ... | String |
| Pin3 | 1 | String |

Settings of each item are as shown below.

Signal Length (OnTime)

Specify the time width of the pulse signal output to the solenoid of the cash drawer.

Setting range: 1 to 8 (x 100) msec

Pin3 Connected (CapStatus)

Specify the connection of the the pin 3 (drawer switch input) of the drawer kick connector.

Setting range: Connect(1)/Not connect(0)

Pin3 Status of Drawer Opened (Pin3)

Specify the drawer switch input signal level with cash drawer open.

Setting value: High(1)/Low(0)

4. POS Printer Service Object

For the details, method of use, etc. of property, method and event, refer to “Java for Retail POS Programming Guide”.

4.1.POS Printer Method Relations

CT-D101

| Method | Status of support by the driver (CITIZEN D101 *) | | Notes |
|------------------------|---|---|---|
| Open | ✓ | | |
| Close | ✓ | | |
| Claim | ✓ | | Refer to 4.5.1 Claim Method |
| Release | ✓ | | |
| checkHealth | ✓ | JPOS_CH_INTERNAL, JPOS_CH_EXTERNAL | |
| clearInput | | Not applicable with POSPrinter | |
| clearInputProperties | | Not applicable with POSPrinter | |
| clearOutput | ✓ | | Data being transmitted cannot be stopped. |
| directIO | | JPOS_E_ILLEGAL | Not supported |
| compareFirmwareVersion | | JPOS_E_ILLEGAL | Not supported |
| resetStatistics | | JPOS_E_ILLEGAL | Not supported |
| retrieveStatistics | ✓ | | |
| updateFirmware | | JPOS_E_ILLEGAL | Not supported |
| updateStatistics | | JPOS_E_ILLEGAL | Not supported |
| beginInsertion | | JPOS_E_ILLEGAL | Not supported |
| beginRemoval | | JPOS_E_ILLEGAL | Not supported |
| changePrintSide | | JPOS_E_ILLEGAL | Not supported |
| clearPrintArea | ✓ | | |
| cutPaper | ✓ | Partial cut (1-99) Full cut (0,100) | |
| drawRuledLine | | JPOS_E_ILLEGAL | Not supported |
| endInsertion | | JPOS_E_ILLEGAL | Not supported |
| endRemoval | | JPOS_E_ILLEGAL | Not supported |
| markFeed | | JPOS_E_ILLEGAL | Not supported |
| pageModePrint | ✓ | | |
| printBarCode | ✓ | | Refer to 4.5.2 printBarCode Method/ ESC #R Escape Sequence |
| printBitmap | ✓ | Raster bit image printing | Refer to 4.5.5 printBitmap Method |
| printImmediate | ✓ | | |
| printMemoryBitmap | ✓ | | |
| printNormal | ✓ | | |
| printTwoNormal | | JPOS_E_ILLEGAL | Not supported |
| rotatePrint | ✓ | | Refer to 4.5.3 rotatePrint Method |
| setBitmap | ✓ | Raster bit image mode NV (Unuse key code) mode NV (Use key code) mode | Refer to 4.5.4 setBitmap Method/ ESC #B Escape Sequence |
| setLogo | ✓ | | |
| transactionPrint | ✓ | | |
| validateData | ✓ | | |

CT-D150

| Method | Status of support by the driver (CITIZEN D150 *) | | Notes |
|------------------------|---|---|---|
| Open | ✓ | | |
| Close | ✓ | | |
| Claim | ✓ | | Refer to 4.5.1 Claim Method |
| Release | ✓ | | |
| checkHealth | ✓ | JPOS_CH_INTERNAL, JPOS_CH_EXTERNAL | |
| clearInput | | Not applicable with POSPrinter | |
| clearInputProperties | | Not applicable with POSPrinter | |
| clearOutput | ✓ | | Data being transmitted cannot be stopped. |
| directIO | | JPOS_E_ILLEGAL | Not supported |
| compareFirmwareVersion | | JPOS_E_ILLEGAL | Not supported |
| resetStatistics | | JPOS_E_ILLEGAL | Not supported |
| retrieveStatistics | ✓ | | |
| updateFirmware | | JPOS_E_ILLEGAL | Not supported |
| updateStatistics | | JPOS_E_ILLEGAL | Not supported |
| beginInsertion | | JPOS_E_ILLEGAL | Not supported |
| beginRemoval | | JPOS_E_ILLEGAL | Not supported |
| changePrintSide | | JPOS_E_ILLEGAL | Not supported |
| clearPrintArea | ✓ | | |
| cutPaper | ✓ | Partial cut (1-99) Full cut (0,100) | |
| drawRuledLine | | JPOS_E_ILLEGAL | Not supported |
| endInsertion | | JPOS_E_ILLEGAL | Not supported |
| endRemoval | | JPOS_E_ILLEGAL | Not supported |
| markFeed | | JPOS_E_ILLEGAL | Not supported |
| pageModePrint | ✓ | | |
| printBarCode | ✓ | | Refer to 4.5.2 printBarCode Method/ ESC #R Escape Sequence |
| printBitmap | ✓ | Raster bit image printing | Refer to 4.5.5 printBitmap Method |
| printImmediate | ✓ | | |
| printMemoryBitmap | ✓ | | |
| printNormal | ✓ | | |
| printTwoNormal | | JPOS_E_ILLEGAL | Not supported |
| rotatePrint | ✓ | | Refer to 4.5.3 rotatePrint Method |
| setBitmap | ✓ | Raster bit image mode NV (Unuse key code) mode NV (Use key code) mode | Refer to 4.5.4 setBitmap Method/ ESC #B Escape Sequence |
| setLogo | ✓ | | |
| transactionPrint | ✓ | | |
| validateData | ✓ | | |

CT-D151

| Method | Status of support by the driver (CITIZEN D151 *) | | Notes |
|------------------------|---|---|---|
| Open | ✓ | | |
| Close | ✓ | | |
| Claim | ✓ | | Refer to 4.5.1 Claim Method |
| Release | ✓ | | |
| checkHealth | ✓ | JPOS_CH_INTERNAL, JPOS_CH_EXTERNAL | |
| clearInput | | Not applicable with POSPrinter | |
| clearInputProperties | | Not applicable with POSPrinter | |
| clearOutput | ✓ | | Data being transmitted cannot be stopped. |
| directIO | ✓ | Defines grayscale print. | Refer to 4.5.16 Grayscale print |
| compareFirmwareVersion | | JPOS_E_ILLEGAL | Not supported |
| resetStatistics | | JPOS_E_ILLEGAL | Not supported |
| retrieveStatistics | ✓ | | |
| updateFirmware | | JPOS_E_ILLEGAL | Not supported |
| updateStatistics | | JPOS_E_ILLEGAL | Not supported |
| beginInsertion | | JPOS_E_ILLEGAL | Not supported |
| beginRemoval | | JPOS_E_ILLEGAL | Not supported |
| changePrintSide | | JPOS_E_ILLEGAL | Not supported |
| clearPrintArea | ✓ | | |
| cutPaper | ✓ | Partial cut (1-99) Full cut (0,100) | |
| drawRuledLine | | JPOS_E_ILLEGAL | Not supported |
| endInsertion | | JPOS_E_ILLEGAL | Not supported |
| endRemoval | | JPOS_E_ILLEGAL | Not supported |
| markFeed | ✓ | Blackmark paper and label paper are supported. | |
| pageModePrint | ✓ | | |
| printBarCode | ✓ | | Refer to 4.5.2 printBarCode Method/ ESC #R Escape Sequence |
| printBitmap | ✓ | Raster bit image printing | Refer to 4.5.5 printBitmap Method, Refer to 4.5.16 Grayscale print |
| printImmediate | ✓ | | |
| printMemoryBitmap | ✓ | | Refer to 4.5.16 Grayscale print |
| printNormal | ✓ | | |
| printTwoNormal | | JPOS_E_ILLEGAL | Not supported |
| rotatePrint | ✓ | | Refer to 4.5.3 rotatePrint Method |
| setBitmap | ✓ | Raster bit image mode NV (Unuse key code) mode NV (Use key code) mode | Refer to 4.5.4 setBitmap Method/ ESC #B Escape Sequence, Refer to 4.5.16 Grayscale print |
| setLogo | ✓ | | |
| transactionPrint | ✓ | | |
| validateData | ✓ | | |

CT-E301

| Method | Status of support by the driver (CITIZEN E301 *) | | Notes |
|------------------------|---|---|---|
| Open | ✓ | | |
| Close | ✓ | | |
| Claim | ✓ | | Refer to 4.5.1 Claim Method |
| Release | ✓ | | |
| checkHealth | ✓ | JPOS_CH_INTERNAL, JPOS_CH_EXTERNAL | |
| clearInput | | Not applicable with POSPrinter | |
| clearInputProperties | | Not applicable with POSPrinter | |
| clearOutput | ✓ | | Data being transmitted cannot be stopped. |
| directIO | | JPOS_E_ILLEGAL | Not supported |
| compareFirmwareVersion | | JPOS_E_ILLEGAL | Not supported |
| resetStatistics | | JPOS_E_ILLEGAL | Not supported |
| retrieveStatistics | ✓ | | |
| updateFirmware | | JPOS_E_ILLEGAL | Not supported |
| updateStatistics | | JPOS_E_ILLEGAL | Not supported |
| beginInsertion | | JPOS_E_ILLEGAL | Not supported |
| beginRemoval | | JPOS_E_ILLEGAL | Not supported |
| changePrintSide | | JPOS_E_ILLEGAL | Not supported |
| clearPrintArea | ✓ | | |
| cutPaper | ✓ | Partial cut (1-99) Full cut (0,100) | |
| drawRuledLine | | JPOS_E_ILLEGAL | Not supported |
| endInsertion | | JPOS_E_ILLEGAL | Not supported |
| endRemoval | | JPOS_E_ILLEGAL | Not supported |
| markFeed | | JPOS_E_ILLEGAL | Not supported |
| pageModePrint | ✓ | | |
| printBarCode | ✓ | | Refer to 4.5.2 printBarCode Method/ ESC #R Escape Sequence |
| printBitmap | ✓ | Raster bit image printing | Refer to 4.5.5 printBitmap Method |
| printImmediate | ✓ | | |
| printMemoryBitmap | ✓ | | |
| printNormal | ✓ | | |
| printTwoNormal | | JPOS_E_ILLEGAL | Not supported |
| rotatePrint | ✓ | | Refer to 4.5.3 rotatePrint Method |
| setBitmap | ✓ | Raster bit image mode NV (Unuse key code) mode NV (Use key code) mode | Refer to 4.5.4 setBitmap Method/ ESC #B Escape Sequence |
| setLogo | ✓ | | |
| transactionPrint | ✓ | | |
| validateData | ✓ | | |

CT-E351

| Method | Status of support by the driver (CITIZEN E351 *) | | Notes |
|------------------------|---|---|---|
| Open | ✓ | | |
| Close | ✓ | | |
| Claim | ✓ | | Refer to 4.5.1 Claim Method |
| Release | ✓ | | |
| checkHealth | ✓ | JPOS_CH_INTERNAL, JPOS_CH_EXTERNAL | |
| clearInput | | Not applicable with POSPrinter | |
| clearInputProperties | | Not applicable with POSPrinter | |
| clearOutput | ✓ | | Data being transmitted cannot be stopped. |
| directIO | | JPOS_E_ILLEGAL | Not supported |
| compareFirmwareVersion | | JPOS_E_ILLEGAL | Not supported |
| resetStatistics | | JPOS_E_ILLEGAL | Not supported |
| retrieveStatistics | ✓ | | |
| updateFirmware | | JPOS_E_ILLEGAL | Not supported |
| updateStatistics | | JPOS_E_ILLEGAL | Not supported |
| beginInsertion | | JPOS_E_ILLEGAL | Not supported |
| beginRemoval | | JPOS_E_ILLEGAL | Not supported |
| changePrintSide | | JPOS_E_ILLEGAL | Not supported |
| clearPrintArea | ✓ | | |
| cutPaper | ✓ | Partial cut (1-99) Full cut (0,100) | |
| drawRuledLine | | JPOS_E_ILLEGAL | Not supported |
| endInsertion | | JPOS_E_ILLEGAL | Not supported |
| endRemoval | | JPOS_E_ILLEGAL | Not supported |
| markFeed | | JPOS_E_ILLEGAL | Not supported |
| pageModePrint | ✓ | | |
| printBarCode | ✓ | | Refer to 4.5.2 printBarCode Method/ ESC #R Escape Sequence |
| printBitmap | ✓ | Raster bit image printing | Refer to 4.5.5 printBitmap Method |
| printImmediate | ✓ | | |
| printMemoryBitmap | ✓ | | |
| printNormal | ✓ | | |
| printTwoNormal | | JPOS_E_ILLEGAL | Not supported |
| rotatePrint | ✓ | | Refer to 4.5.3 rotatePrint Method |
| setBitmap | ✓ | Raster bit image mode NV (Unuse key code) mode NV (Use key code) mode | Refer to 4.5.4 setBitmap Method/ ESC #B Escape Sequence |
| setLogo | ✓ | | |
| transactionPrint | ✓ | | |
| validateData | ✓ | | |

CT-E601

| Method | Status of support by the driver (CITIZEN E601 *) | | Notes |
|------------------------|---|---|---|
| Open | ✓ | | |
| Close | ✓ | | |
| Claim | ✓ | | Refer to 4.5.1 Claim Method |
| Release | ✓ | | |
| checkHealth | ✓ | JPOS_CH_INTERNAL, JPOS_CH_EXTERNAL | |
| clearInput | | Not applicable with POSPrinter | |
| clearInputProperties | | Not applicable with POSPrinter | |
| clearOutput | ✓ | | Data being transmitted cannot be stopped. |
| directIO | ✓ | Defines grayscale print. | Refer to 4.5.16 Grayscale print |
| compareFirmwareVersion | | JPOS_E_ILLEGAL | Not supported |
| resetStatistics | | JPOS_E_ILLEGAL | Not supported |
| retrieveStatistics | ✓ | | |
| updateFirmware | | JPOS_E_ILLEGAL | Not supported |
| updateStatistics | | JPOS_E_ILLEGAL | Not supported |
| beginInsertion | | JPOS_E_ILLEGAL | Not supported |
| beginRemoval | | JPOS_E_ILLEGAL | Not supported |
| changePrintSide | | JPOS_E_ILLEGAL | Not supported |
| clearPrintArea | ✓ | | |
| cutPaper | ✓ | Partial cut (1-99) Full cut (0,100) | |
| drawRuledLine | | JPOS_E_ILLEGAL | Not supported |
| endInsertion | | JPOS_E_ILLEGAL | Not supported |
| endRemoval | | JPOS_E_ILLEGAL | Not supported |
| markFeed | | JPOS_E_ILLEGAL | Not supported |
| pageModePrint | ✓ | | |
| printBarCode | ✓ | | Refer to 4.5.2 printBarCode Method/ ESC #R Escape Sequence |
| printBitmap | ✓ | Raster bit image printing | Refer to 4.5.5 printBitmap Method, Refer to 4.5.16 Grayscale print |
| printImmediate | ✓ | | |
| printMemoryBitmap | ✓ | | Refer to 4.5.16 Grayscale print |
| printNormal | ✓ | | |
| printTwoNormal | | JPOS_E_ILLEGAL | Not supported |
| rotatePrint | ✓ | | Refer to 4.5.3 rotatePrint Method |
| setBitmap | ✓ | Raster bit image mode NV (Unuse key code) mode NV (Use key code) mode | Refer to 4.5.4 setBitmap Method/ ESC #B Escape Sequence, Refer to 4.5.16 Grayscale print |
| setLogo | ✓ | | |
| transactionPrint | ✓ | | |
| validateData | ✓ | | |

CT-E651

| Method | Status of support by the driver (CITIZEN E651 *) | | Notes |
|------------------------|---|---|---|
| Open | ✓ | | |
| Close | ✓ | | |
| Claim | ✓ | | Refer to 4.5.1 Claim Method |
| Release | ✓ | | |
| checkHealth | ✓ | JPOS_CH_INTERNAL, JPOS_CH_EXTERNAL | |
| clearInput | | Not applicable with POSPrinter | |
| clearInputProperties | | Not applicable with POSPrinter | |
| clearOutput | ✓ | | Data being transmitted cannot be stopped. |
| directIO | ✓ | Defines grayscale print. | Refer to 4.5.16 Grayscale print |
| compareFirmwareVersion | | JPOS_E_ILLEGAL | Not supported |
| resetStatistics | | JPOS_E_ILLEGAL | Not supported |
| retrieveStatistics | ✓ | | |
| updateFirmware | | JPOS_E_ILLEGAL | Not supported |
| updateStatistics | | JPOS_E_ILLEGAL | Not supported |
| beginInsertion | | JPOS_E_ILLEGAL | Not supported |
| beginRemoval | | JPOS_E_ILLEGAL | Not supported |
| changePrintSide | | JPOS_E_ILLEGAL | Not supported |
| clearPrintArea | ✓ | | |
| cutPaper | ✓ | Partial cut (1-99) Full cut (0,100) | |
| drawRuledLine | | JPOS_E_ILLEGAL | Not supported |
| endInsertion | | JPOS_E_ILLEGAL | Not supported |
| endRemoval | | JPOS_E_ILLEGAL | Not supported |
| markFeed | ✓ | Blackmark paper and label paper are supported. | |
| pageModePrint | ✓ | | |
| printBarCode | ✓ | | Refer to 4.5.2 printBarCode Method/ ESC #R Escape Sequence |
| printBitmap | ✓ | Raster bit image printing | Refer to 4.5.5 printBitmap Method, Refer to 4.5.16 Grayscale print |
| printImmediate | ✓ | | |
| printMemoryBitmap | ✓ | | Refer to 4.5.16 Grayscale print |
| printNormal | ✓ | | |
| printTwoNormal | | JPOS_E_ILLEGAL | Not supported |
| rotatePrint | ✓ | | Refer to 4.5.3 rotatePrint Method |
| setBitmap | ✓ | Raster bit image mode NV (Unuse key code) mode NV (Use key code) mode | Refer to 4.5.4 setBitmap Method/ ESC #B Escape Sequence, Refer to 4.5.16 Grayscale print |
| setLogo | ✓ | | |
| transactionPrint | ✓ | | |
| validateData | ✓ | | |

CT-S251

| Method | Status of support by the driver (CITIZEN S251 *) | | Notes |
|------------------------|---|---|---|
| Open | ✓ | | |
| Close | ✓ | | |
| Claim | ✓ | | Refer to 4.5.1 Claim Method |
| Release | ✓ | | |
| checkHealth | ✓ | JPOS_CH_INTERNAL, JPOS_CH_EXTERNAL | |
| clearInput | | Not applicable with POSPrinter | |
| clearInputProperties | | Not applicable with POSPrinter | |
| clearOutput | ✓ | | Data being transmitted cannot be stopped. |
| directIO | ✓ | Defines grayscale print. | Refer to 4.5.16 Grayscale print |
| compareFirmwareVersion | | JPOS_E_ILLEGAL | Not supported |
| resetStatistics | | JPOS_E_ILLEGAL | Not supported |
| retrieveStatistics | ✓ | | |
| updateFirmware | | JPOS_E_ILLEGAL | Not supported |
| updateStatistics | | JPOS_E_ILLEGAL | Not supported |
| beginInsertion | | JPOS_E_ILLEGAL | Not supported |
| beginRemoval | | JPOS_E_ILLEGAL | Not supported |
| changePrintSide | | JPOS_E_ILLEGAL | Not supported |
| clearPrintArea | ✓ | | |
| cutPaper | ✓ | Partial cut (1-99) Full cut (0,100) | |
| drawRuledLine | | JPOS_E_ILLEGAL | Not supported |
| endInsertion | | JPOS_E_ILLEGAL | Not supported |
| endRemoval | | JPOS_E_ILLEGAL | Not supported |
| markFeed | | JPOS_E_ILLEGAL | Not supported |
| pageModePrint | ✓ | | |
| printBarCode | ✓ | | Refer to 4.5.2 printBarCode Method/ ESC #R Escape Sequence |
| printBitmap | ✓ | Raster bit image printing | Refer to 4.5.5 printBitmap Method, Refer to 4.5.16 Grayscale print |
| printImmediate | ✓ | | |
| printMemoryBitmap | ✓ | | Refer to 4.5.16 Grayscale print |
| printNormal | ✓ | | |
| printTwoNormal | | JPOS_E_ILLEGAL | Not supported |
| rotatePrint | ✓ | | Refer to 4.5.3 rotatePrint Method |
| setBitmap | ✓ | Raster bit image mode NV (Unuse key code) mode NV (Use key code) mode | Refer to 4.5.4 setBitmap Method/ ESC #B Escape Sequence, Refer to 4.5.16 Grayscale print |
| setLogo | ✓ | | |
| transactionPrint | ✓ | | |
| validateData | ✓ | | |

CT-S281

| Method | Status of support by the driver (CITIZEN S281 *) | | Notes |
|------------------------|---|---|---|
| Open | ✓ | | |
| Close | ✓ | | |
| Claim | ✓ | | Refer to 4.5.1 Claim Method |
| Release | ✓ | | |
| checkHealth | ✓ | JPOS_CH_INTERNAL, JPOS_CH_EXTERNAL | |
| clearInput | | Not applicable with POSPrinter | |
| clearInputProperties | | Not applicable with POSPrinter | |
| clearOutput | ✓ | | Data being transmitted cannot be stopped. |
| directIO | | JPOS_E_ILLEGAL | Not supported |
| compareFirmwareVersion | | JPOS_E_ILLEGAL | Not supported |
| resetStatistics | | JPOS_E_ILLEGAL | Not supported |
| retrieveStatistics | ✓ | | |
| updateFirmware | | JPOS_E_ILLEGAL | Not supported |
| updateStatistics | | JPOS_E_ILLEGAL | Not supported |
| beginInsertion | | JPOS_E_ILLEGAL | Not supported |
| beginRemoval | | JPOS_E_ILLEGAL | Not supported |
| changePrintSide | | JPOS_E_ILLEGAL | Not supported |
| clearPrintArea | ✓ | | |
| cutPaper | ✓ | Partial cut (1-99) Full cut (0,100) | |
| drawRuledLine | | JPOS_E_ILLEGAL | Not supported |
| endInsertion | | JPOS_E_ILLEGAL | Not supported |
| endRemoval | | JPOS_E_ILLEGAL | Not supported |
| markFeed | ✓ | Blackmark paper and label paper are supported. | |
| pageModePrint | ✓ | | |
| printBarCode | ✓ | | Refer to 4.5.2 printBarCode Method/ ESC #R Escape Sequence |
| printBitmap | ✓ | Raster bit image printing | Refer to 4.5.5 printBitmap Method |
| printImmediate | ✓ | | |
| printMemoryBitmap | ✓ | | |
| printNormal | ✓ | | |
| printTwoNormal | | JPOS_E_ILLEGAL | Not supported |
| rotatePrint | ✓ | | Refer to 4.5.3 rotatePrint Method |
| setBitmap | ✓ | Raster bit image mode NV (Unuse key code) mode | Refer to 4.5.4 setBitmap Method/ ESC #B Escape Sequence |
| setLogo | ✓ | | |
| transactionPrint | ✓ | | |
| validateData | ✓ | | |

CT-S310

| Method | Status of support by the driver (CITIZEN S310 *) | | Notes |
|------------------------|---|---|---|
| Open | ✓ | | |
| Close | ✓ | | |
| Claim | ✓ | | Refer to 4.5.1 Claim Method |
| Release | ✓ | | |
| checkHealth | ✓ | JPOS_CH_INTERNAL, JPOS_CH_EXTERNAL | |
| clearInput | | Not applicable with POSPrinter | |
| clearInputProperties | | Not applicable with POSPrinter | |
| clearOutput | ✓ | | Data being transmitted cannot be stopped. |
| directIO | | JPOS_E_ILLEGAL | Not supported |
| compareFirmwareVersion | | JPOS_E_ILLEGAL | Not supported |
| resetStatistics | | JPOS_E_ILLEGAL | Not supported |
| retrieveStatistics | ✓ | | |
| updateFirmware | | JPOS_E_ILLEGAL | Not supported |
| updateStatistics | | JPOS_E_ILLEGAL | Not supported |
| beginInsertion | | JPOS_E_ILLEGAL | Not supported |
| beginRemoval | | JPOS_E_ILLEGAL | Not supported |
| changePrintSide | | JPOS_E_ILLEGAL | Not supported |
| clearPrintArea | ✓ | | |
| cutPaper | ✓ | Partial cut (1-99) Full cut (0,100) | |
| drawRuledLine | | JPOS_E_ILLEGAL | Not supported |
| endInsertion | | JPOS_E_ILLEGAL | Not supported |
| endRemoval | | JPOS_E_ILLEGAL | Not supported |
| markFeed | ✓ | Blackmark paper is supported. | |
| pageModePrint | ✓ | | |
| printBarCode | ✓ | | Refer to 4.5.2 printBarCode Method/ ESC #R Escape Sequence |
| printBitmap | ✓ | Raster bit image printing | Refer to 4.5.5 printBitmap Method |
| printImmediate | ✓ | | |
| printMemoryBitmap | ✓ | | |
| printNormal | ✓ | | |
| printTwoNormal | | JPOS_E_ILLEGAL | Not supported |
| rotatePrint | ✓ | | Refer to 4.5.3 rotatePrint Method |
| setBitmap | ✓ | Raster bit image mode NV (Unuse key code) mode | Refer to 4.5.4 setBitmap Method/ ESC #B Escape Sequence |
| setLogo | ✓ | | |
| transactionPrint | ✓ | | |
| validateData | ✓ | | |

CT-S310II

| Method | Status of support by the driver (CITIZEN S310II *) | | Notes |
|------------------------|---|---|---|
| Open | ✓ | | |
| Close | ✓ | | |
| Claim | ✓ | | Refer to 4.5.1 Claim Method |
| Release | ✓ | | |
| checkHealth | ✓ | JPOS_CH_INTERNAL, JPOS_CH_EXTERNAL | |
| clearInput | | Not applicable with POSPrinter | |
| clearInputProperties | | Not applicable with POSPrinter | |
| clearOutput | ✓ | | Data being transmitted cannot be stopped. |
| directIO | | JPOS_E_ILLEGAL | Not supported |
| compareFirmwareVersion | | JPOS_E_ILLEGAL | Not supported |
| resetStatistics | | JPOS_E_ILLEGAL | Not supported |
| retrieveStatistics | ✓ | | |
| updateFirmware | | JPOS_E_ILLEGAL | Not supported |
| updateStatistics | | JPOS_E_ILLEGAL | Not supported |
| beginInsertion | | JPOS_E_ILLEGAL | Not supported |
| beginRemoval | | JPOS_E_ILLEGAL | Not supported |
| changePrintSide | | JPOS_E_ILLEGAL | Not supported |
| clearPrintArea | ✓ | | |
| cutPaper | ✓ | Partial cut (1-99) Full cut (0,100) | |
| drawRuledLine | | JPOS_E_ILLEGAL | Not supported |
| endInsertion | | JPOS_E_ILLEGAL | Not supported |
| endRemoval | | JPOS_E_ILLEGAL | Not supported |
| markFeed | | JPOS_E_ILLEGAL | Not supported |
| pageModePrint | ✓ | | |
| printBarCode | ✓ | | Refer to 4.5.2 printBarCode Method/ ESC #R Escape Sequence |
| printBitmap | ✓ | Raster bit image printing | Refer to 4.5.5 printBitmap Method |
| printImmediate | ✓ | | |
| printMemoryBitmap | ✓ | | |
| printNormal | ✓ | | |
| printTwoNormal | | JPOS_E_ILLEGAL | Not supported |
| rotatePrint | ✓ | | Refer to 4.5.3 rotatePrint Method |
| setBitmap | ✓ | Raster bit image mode NV (Unuse key code) mode NV (Use key code) mode | Refer to 4.5.4 setBitmap Method/ ESC #B Escape Sequence |
| setLogo | ✓ | | |
| transactionPrint | ✓ | | |
| validateData | ✓ | | |

CT-S601/651/801/851

| Method | Status of support by the driver (CITIZEN S601 *, CITIZEN S651 *, CITIZEN S801 *, CITIZEN S851 *) | Notes |
|------------------------|--|---|
| Open | ✓ | |
| Close | ✓ | |
| Claim | ✓ | Refer to 4.5.1 Claim Method |
| Release | ✓ | |
| checkHealth | ✓ JPOS_CH_INTERNAL, JPOS_CH_EXTERNAL | |
| clearInput | Not applicable with POSPrinter | |
| clearInputProperties | Not applicable with POSPrinter | |
| clearOutput | ✓ | Data being transmitted cannot be stopped. |
| directIO | JPOS_E_ILLEGAL | Not supported |
| compareFirmwareVersion | JPOS_E_ILLEGAL | Not supported |
| resetStatistics | JPOS_E_ILLEGAL | Not supported |
| retrieveStatistics | ✓ | |
| updateFirmware | JPOS_E_ILLEGAL | Not supported |
| updateStatistics | JPOS_E_ILLEGAL | Not supported |
| beginInsertion | JPOS_E_ILLEGAL | Not supported |
| beginRemoval | JPOS_E_ILLEGAL | Not supported |
| changePrintSide | JPOS_E_ILLEGAL | Not supported |
| clearPrintArea | ✓ | |
| cutPaper | ✓ Partial cut (1-99) Full cut (0,100) | |
| drawRuledLine | JPOS_E_ILLEGAL | Not supported |
| endInsertion | JPOS_E_ILLEGAL | Not supported |
| endRemoval | JPOS_E_ILLEGAL | Not supported |
| markFeed | ✓ Blackmark paper and label paper are supported. | |
| pageModePrint | ✓ | |
| printBarCode | ✓ | Refer to 4.5.2 printBarCode Method/ ESC #R Escape Sequence |
| printBitmap | ✓ Raster bit image printing | Refer to 4.5.5 printBitmap Method |
| printImmediate | ✓ | |
| printMemoryBitmap | ✓ | |
| printNormal | ✓ | |
| printTwoNormal | JPOS_E_ILLEGAL | Not supported |
| rotatePrint | ✓ | Refer to 4.5.3 rotatePrint Method |
| setBitmap | ✓ Raster bit image mode NV (Unuse key code) mode NV (Use key code) mode | Refer to 4.5.4 setBitmap Method/ ESC #B Escape Sequence |
| setLogo | ✓ | |
| transactionPrint | ✓ | |
| validateData | ✓ | |

CT-S601II/651II/801II/851II

| Method | Status of support by the driver (CITIZEN S601II *, CITIZEN S651II *, CITIZEN S801II *, CITIZEN S851II *) | | Notes |
|------------------------|--|---|---|
| Open | ✓ | | |
| Close | ✓ | | |
| Claim | ✓ | | Refer to 4.5.1 Claim Method |
| Release | ✓ | | |
| checkHealth | ✓ | JPOS_CH_INTERNAL, JPOS_CH_EXTERNAL | |
| clearInput | | Not applicable with POSPrinter | |
| clearInputProperties | | Not applicable with POSPrinter | |
| clearOutput | ✓ | | Data being transmitted cannot be stopped. |
| directIO | ✓ | Defines grayscale print. | Refer to 4.5.16 Grayscale print |
| compareFirmwareVersion | | JPOS_E_ILLEGAL | Not supported |
| resetStatistics | | JPOS_E_ILLEGAL | Not supported |
| retrieveStatistics | ✓ | | |
| updateFirmware | | JPOS_E_ILLEGAL | Not supported |
| updateStatistics | | JPOS_E_ILLEGAL | Not supported |
| beginInsertion | | JPOS_E_ILLEGAL | Not supported |
| beginRemoval | | JPOS_E_ILLEGAL | Not supported |
| changePrintSide | | JPOS_E_ILLEGAL | Not supported |
| clearPrintArea | ✓ | | |
| cutPaper | ✓ | Partial cut (1-99) Full cut (0,100) | |
| drawRuledLine | | JPOS_E_ILLEGAL | Not supported |
| endInsertion | | JPOS_E_ILLEGAL | Not supported |
| endRemoval | | JPOS_E_ILLEGAL | Not supported |
| markFeed | ✓ | Blackmark paper and label paper are supported. | |
| pageModePrint | ✓ | | |
| printBarCode | ✓ | | Refer to 4.5.2 printBarCode Method/ ESC #R Escape Sequence |
| printBitmap | ✓ | Raster bit image printing | Refer to 4.5.5 printBitmap Method, Refer to 4.5.16 Grayscale print |
| printImmediate | ✓ | | |
| printMemoryBitmap | ✓ | | Refer to 4.5.16 Grayscale print |
| printNormal | ✓ | | |
| printTwoNormal | | JPOS_E_ILLEGAL | Not supported |
| rotatePrint | ✓ | | Refer to 4.5.3 rotatePrint Method |
| setBitmap | ✓ | Raster bit image mode NV (Unuse key code) mode NV (Use key code) mode | Refer to 4.5.4 setBitmap Method/ ESC #B _ Escape Sequence, Refer to 4.5.16 Grayscale print |
| setLogo | ✓ | | |
| transactionPrint | ✓ | | |
| validateData | ✓ | | |

CT-S801III/851III

| Method | Status of support by the driver (CITIZEN S801III *, CITIZEN S851III *) | | Notes |
|------------------------|---|---|---|
| Open | ✓ | | |
| Close | ✓ | | |
| Claim | ✓ | | Refer to 4.5.1 Claim Method |
| Release | ✓ | | |
| checkHealth | ✓ | JPOS_CH_INTERNAL, JPOS_CH_EXTERNAL | |
| clearInput | | Not applicable with POSPrinter | |
| clearInputProperties | | Not applicable with POSPrinter | |
| clearOutput | ✓ | | Data being transmitted cannot be stopped. |
| directIO | ✓ | Defines grayscale print. | Refer to 4.5.16 Grayscale print |
| compareFirmwareVersion | | JPOS_E_ILLEGAL | Not supported |
| resetStatistics | | JPOS_E_ILLEGAL | Not supported |
| retrieveStatistics | ✓ | | |
| updateFirmware | | JPOS_E_ILLEGAL | Not supported |
| updateStatistics | | JPOS_E_ILLEGAL | Not supported |
| beginInsertion | | JPOS_E_ILLEGAL | Not supported |
| beginRemoval | | JPOS_E_ILLEGAL | Not supported |
| changePrintSide | | JPOS_E_ILLEGAL | Not supported |
| clearPrintArea | ✓ | | |
| cutPaper | ✓ | Partial cut (1-99) Full cut (0,100) | |
| drawRuledLine | | JPOS_E_ILLEGAL | Not supported |
| endInsertion | | JPOS_E_ILLEGAL | Not supported |
| endRemoval | | JPOS_E_ILLEGAL | Not supported |
| markFeed | ✓ | Blackmark paper and label paper are supported. | |
| pageModePrint | ✓ | | |
| printBarCode | ✓ | | Refer to 4.5.2 printBarCode Method/ ESC #R Escape Sequence |
| printBitmap | ✓ | Raster bit image printing | Refer to 4.5.5 printBitmap Method, Refer to 4.5.16 Grayscale print |
| printImmediate | ✓ | | |
| printMemoryBitmap | ✓ | | Refer to 4.5.16 Grayscale print |
| printNormal | ✓ | | |
| printTwoNormal | | JPOS_E_ILLEGAL | Not supported |
| rotatePrint | ✓ | | Refer to 4.5.3 rotatePrint Method |
| setBitmap | ✓ | Raster bit image mode NV (Unuse key code) mode NV (Use key code) mode | Refer to 4.5.4 setBitmap Method/ ESC #B Escape Sequence, Refer to 4.5.16 Grayscale print |
| setLogo | ✓ | | |
| transactionPrint | ✓ | | |
| validateData | ✓ | | |

CT-S751

| Method | Status of support by the driver (CITIZEN S751 *) | | Notes |
|------------------------|---|---|---|
| Open | ✓ | | |
| Close | ✓ | | |
| Claim | ✓ | | Refer to 4.5.1 Claim Method |
| Release | ✓ | | |
| checkHealth | ✓ | JPOS_CH_INTERNAL, JPOS_CH_EXTERNAL | |
| clearInput | | Not applicable with POSPrinter | |
| clearInputProperties | | Not applicable with POSPrinter | |
| clearOutput | ✓ | | Data being transmitted cannot be stopped. |
| directIO | ✓ | Defines grayscale print. | Refer to 4.5.16 Grayscale print |
| compareFirmwareVersion | | JPOS_E_ILLEGAL | Not supported |
| resetStatistics | | JPOS_E_ILLEGAL | Not supported |
| retrieveStatistics | ✓ | | |
| updateFirmware | | JPOS_E_ILLEGAL | Not supported |
| updateStatistics | | JPOS_E_ILLEGAL | Not supported |
| beginInsertion | | JPOS_E_ILLEGAL | Not supported |
| beginRemoval | | JPOS_E_ILLEGAL | Not supported |
| changePrintSide | | JPOS_E_ILLEGAL | Not supported |
| clearPrintArea | ✓ | | |
| cutPaper | ✓ | Partial cut (1-99) Full cut (0,100) | |
| drawRuledLine | | JPOS_E_ILLEGAL | Not supported |
| endInsertion | | JPOS_E_ILLEGAL | Not supported |
| endRemoval | | JPOS_E_ILLEGAL | Not supported |
| markFeed | | JPOS_E_ILLEGAL | Not supported |
| pageModePrint | ✓ | | |
| printBarCode | ✓ | | Refer to 4.5.2 printBarCode Method/ ESC #R Escape Sequence |
| printBitmap | ✓ | Raster bit image printing | Refer to 4.5.5 printBitmap Method, Refer to 4.5.16 Grayscale print |
| printImmediate | ✓ | | |
| printMemoryBitmap | ✓ | | Refer to 4.5.16 Grayscale print |
| printNormal | ✓ | | |
| printTwoNormal | | JPOS_E_ILLEGAL | Not supported |
| rotatePrint | ✓ | | Refer to 4.5.3 rotatePrint Method |
| setBitmap | ✓ | Raster bit image mode NV (Unuse key code) mode NV (Use key code) mode | Refer to 4.5.4 setBitmap Method/ ESC #B Escape Sequence, Refer to 4.5.16 Grayscale print |
| setLogo | ✓ | | |
| transactionPrint | ✓ | | |
| validateData | ✓ | | |

CT-S2000

| Method | Status of support by the driver (CITIZEN S2000 *) | | Notes |
|------------------------|--|---|---|
| Open | ✓ | | |
| Close | ✓ | | |
| Claim | ✓ | | Refer to 4.5.1 Claim Method |
| Release | ✓ | | |
| checkHealth | ✓ | JPOS_CH_INTERNAL, JPOS_CH_EXTERNAL | |
| clearInput | | Not applicable with POSPrinter | |
| clearInputProperties | | Not applicable with POSPrinter | |
| clearOutput | ✓ | | Data being transmitted cannot be stopped. |
| directIO | | JPOS_E_ILLEGAL | Not supported |
| compareFirmwareVersion | | JPOS_E_ILLEGAL | Not supported |
| resetStatistics | | JPOS_E_ILLEGAL | Not supported |
| retrieveStatistics | ✓ | | |
| updateFirmware | | JPOS_E_ILLEGAL | Not supported |
| updateStatistics | | JPOS_E_ILLEGAL | Not supported |
| beginInsertion | | JPOS_E_ILLEGAL | Not supported |
| beginRemoval | | JPOS_E_ILLEGAL | Not supported |
| changePrintSide | | JPOS_E_ILLEGAL | Not supported |
| clearPrintArea | ✓ | | |
| cutPaper | ✓ | Partial cut (1-99) Full cut (0,100) | |
| drawRuledLine | | JPOS_E_ILLEGAL | Not supported |
| endInsertion | | JPOS_E_ILLEGAL | Not supported |
| endRemoval | | JPOS_E_ILLEGAL | Not supported |
| markFeed | ✓ | Blackmark paper and label paper are supported. | |
| pageModePrint | ✓ | | |
| printBarCode | ✓ | | Refer to 4.5.2 printBarCode Method/ ESC #R Escape Sequence |
| printBitmap | ✓ | Raster bit image printing | Refer to 4.5.5 printBitmap Method |
| printImmediate | ✓ | | |
| printMemoryBitmap | ✓ | | |
| printNormal | ✓ | | |
| printTwoNormal | | JPOS_E_ILLEGAL | Not supported |
| rotatePrint | ✓ | | Refer to 4.5.3 rotatePrint Method |
| setBitmap | ✓ | Raster bit image mode NV (Unuse key code) mode NV (Use key code) mode | Refer to 4.5.4 setBitmap Method/ ESC #B Escape Sequence |
| setLogo | ✓ | | |
| transactionPrint | ✓ | | |
| validateData | ✓ | | |

CT-S4000

| Method | Status of support by the driver (CITIZEN S4000 *) | | Notes |
|------------------------|--|---|---|
| Open | ✓ | | |
| Close | ✓ | | |
| Claim | ✓ | | Refer to 4.5.1 Claim Method |
| Release | ✓ | | |
| checkHealth | ✓ | JPOS_CH_INTERNAL, JPOS_CH_EXTERNAL | |
| clearInput | | Not applicable with POSPrinter | |
| clearInputProperties | | Not applicable with POSPrinter | |
| clearOutput | ✓ | | Data being transmitted cannot be stopped. |
| directIO | | JPOS_E_ILLEGAL | Not supported |
| compareFirmwareVersion | | JPOS_E_ILLEGAL | Not supported |
| resetStatistics | | JPOS_E_ILLEGAL | Not supported |
| retrieveStatistics | ✓ | | |
| updateFirmware | | JPOS_E_ILLEGAL | Not supported |
| updateStatistics | | JPOS_E_ILLEGAL | Not supported |
| beginInsertion | | JPOS_E_ILLEGAL | Not supported |
| beginRemoval | | JPOS_E_ILLEGAL | Not supported |
| changePrintSide | | JPOS_E_ILLEGAL | Not supported |
| clearPrintArea | ✓ | | |
| cutPaper | ✓ | Partial cut (1-99) Full cut (0,100) | |
| drawRuledLine | | JPOS_E_ILLEGAL | Not supported |
| endInsertion | | JPOS_E_ILLEGAL | Not supported |
| endRemoval | | JPOS_E_ILLEGAL | Not supported |
| markFeed | ✓ | Blackmark paper and label paper are supported. | |
| pageModePrint | ✓ | | |
| printBarCode | ✓ | | Refer to 4.5.2 printBarCode Method/ ESC #R Escape Sequence |
| printBitmap | ✓ | Raster bit image printing | Refer to 4.5.5 printBitmap Method |
| printImmediate | ✓ | | |
| printMemoryBitmap | ✓ | | |
| printNormal | ✓ | | |
| printTwoNormal | | JPOS_E_ILLEGAL | Not supported |
| rotatePrint | ✓ | | Refer to 4.5.3 rotatePrint Method |
| setBitmap | ✓ | Raster bit image mode NV (Unuse key code) mode NV (Use key code) mode | Refer to 4.5.4 setBitmap Method/ ESC #B Escape Sequence |
| setLogo | ✓ | | |
| transactionPrint | ✓ | | |
| validateData | ✓ | | |

CT-S4500

| Method | Status of support by the driver (CITIZEN S4500 *) | | Notes |
|------------------------|--|---|---|
| Open | ✓ | | |
| Close | ✓ | | |
| Claim | ✓ | | Refer to 4.5.1 Claim Method |
| Release | ✓ | | |
| checkHealth | ✓ | JPOS_CH_INTERNAL, JPOS_CH_EXTERNAL | |
| clearInput | | Not applicable with POSPrinter | |
| clearInputProperties | | Not applicable with POSPrinter | |
| clearOutput | ✓ | | Data being transmitted cannot be stopped. |
| directIO | | JPOS_E_ILLEGAL | Not supported |
| compareFirmwareVersion | | JPOS_E_ILLEGAL | Not supported |
| resetStatistics | | JPOS_E_ILLEGAL | Not supported |
| retrieveStatistics | ✓ | | |
| updateFirmware | | JPOS_E_ILLEGAL | Not supported |
| updateStatistics | | JPOS_E_ILLEGAL | Not supported |
| beginInsertion | | JPOS_E_ILLEGAL | Not supported |
| beginRemoval | | JPOS_E_ILLEGAL | Not supported |
| changePrintSide | | JPOS_E_ILLEGAL | Not supported |
| clearPrintArea | ✓ | | |
| cutPaper | ✓ | Partial cut (1-99) Full cut (0,100) | |
| drawRuledLine | | JPOS_E_ILLEGAL | Not supported |
| endInsertion | | JPOS_E_ILLEGAL | Not supported |
| endRemoval | | JPOS_E_ILLEGAL | Not supported |
| markFeed | ✓ | Blackmark paper and label paper are supported. | |
| pageModePrint | ✓ | | |
| printBarCode | ✓ | | Refer to 4.5.2 printBarCode Method/ ESC #R Escape Sequence |
| printBitmap | ✓ | Raster bit image printing | Refer to 4.5.5 printBitmap Method |
| printImmediate | ✓ | | |
| printMemoryBitmap | ✓ | | |
| printNormal | ✓ | | |
| printTwoNormal | | JPOS_E_ILLEGAL | Not supported |
| rotatePrint | ✓ | | Refer to 4.5.3 rotatePrint Method |
| setBitmap | ✓ | Raster bit image mode NV (Unuse key code) mode NV (Use key code) mode | Refer to 4.5.4 setBitmap Method/ ESC #B Escape Sequence |
| setLogo | ✓ | | |
| transactionPrint | ✓ | | |
| validateData | ✓ | | |

PMU2300III

| Method | Status of support by the driver (CITIZEN PMU2300III *) | | Notes |
|------------------------|---|---|---|
| Open | ✓ | | |
| Close | ✓ | | |
| Claim | ✓ | | Refer to 4.5.1 Claim Method |
| Release | ✓ | | |
| checkHealth | ✓ | JPOS_CH_INTERNAL, JPOS_CH_EXTERNAL | |
| clearInput | | Not applicable with POSPrinter | |
| clearInputProperties | | Not applicable with POSPrinter | |
| clearOutput | ✓ | | Data being transmitted cannot be stopped. |
| directIO | | JPOS_E_ILLEGAL | Not supported |
| compareFirmwareVersion | | JPOS_E_ILLEGAL | Not supported |
| resetStatistics | | JPOS_E_ILLEGAL | Not supported |
| retrieveStatistics | ✓ | | |
| updateFirmware | | JPOS_E_ILLEGAL | Not supported |
| updateStatistics | | JPOS_E_ILLEGAL | Not supported |
| beginInsertion | | JPOS_E_ILLEGAL | Not supported |
| beginRemoval | | JPOS_E_ILLEGAL | Not supported |
| changePrintSide | | JPOS_E_ILLEGAL | Not supported |
| clearPrintArea | ✓ | | |
| cutPaper | ✓ | Partial cut (1-99) Full cut (0,100) | |
| drawRuledLine | | JPOS_E_ILLEGAL | Not supported |
| endInsertion | | JPOS_E_ILLEGAL | Not supported |
| endRemoval | | JPOS_E_ILLEGAL | Not supported |
| markFeed | ✓ | Blackmark paper is supported. | |
| pageModePrint | ✓ | | |
| printBarCode | ✓ | | Refer to 4.5.2 printBarCode Method/ ESC #R Escape Sequence |
| printBitmap | ✓ | Raster bit image printing | Refer to 4.5.5 printBitmap Method |
| printImmediate | ✓ | | |
| printMemoryBitmap | ✓ | | |
| printNormal | ✓ | | |
| printTwoNormal | | JPOS_E_ILLEGAL | Not supported |
| rotatePrint | ✓ | | Refer to 4.5.3 rotatePrint Method |
| setBitmap | ✓ | Raster bit image mode NV (Unuse key code) mode | Refer to 4.5.4 setBitmap Method/ ESC #B Escape Sequence |
| setLogo | ✓ | | |
| transactionPrint | ✓ | | |
| validateData | ✓ | | |

PMU3300

| Method | Status of support by the driver (CITIZEN PMU2300III *) | | Notes |
|------------------------|---|---|---|
| Open | ✓ | | |
| Close | ✓ | | |
| Claim | ✓ | | Refer to 4.5.1 Claim Method |
| Release | ✓ | | |
| checkHealth | ✓ | JPOS_CH_INTERNAL, JPOS_CH_EXTERNAL | |
| clearInput | | Not applicable with POSPrinter | |
| clearInputProperties | | Not applicable with POSPrinter | |
| clearOutput | ✓ | | Data being transmitted cannot be stopped. |
| directIO | | JPOS_E_ILLEGAL | Not supported |
| compareFirmwareVersion | | JPOS_E_ILLEGAL | Not supported |
| resetStatistics | | JPOS_E_ILLEGAL | Not supported |
| retrieveStatistics | ✓ | | |
| updateFirmware | | JPOS_E_ILLEGAL | Not supported |
| updateStatistics | | JPOS_E_ILLEGAL | Not supported |
| beginInsertion | | JPOS_E_ILLEGAL | Not supported |
| beginRemoval | | JPOS_E_ILLEGAL | Not supported |
| changePrintSide | | JPOS_E_ILLEGAL | Not supported |
| clearPrintArea | ✓ | | |
| cutPaper | ✓ | Partial cut (1-99) Full cut (0,100) | |
| drawRuledLine | | JPOS_E_ILLEGAL | Not supported |
| endInsertion | | JPOS_E_ILLEGAL | Not supported |
| endRemoval | | JPOS_E_ILLEGAL | Not supported |
| markFeed | ✓ | Blackmark paper is supported. | |
| pageModePrint | ✓ | | |
| printBarCode | ✓ | | Refer to 4.5.2 printBarCode Method/ ESC #R Escape Sequence |
| printBitmap | ✓ | Raster bit image printing | Refer to 4.5.5 printBitmap Method |
| printImmediate | ✓ | | |
| printMemoryBitmap | ✓ | | |
| printNormal | ✓ | | |
| printTwoNormal | | JPOS_E_ILLEGAL | Not supported |
| rotatePrint | ✓ | | Refer to 4.5.3 rotatePrint Method |
| setBitmap | ✓ | Raster bit image mode NV (Unuse key code) mode | Refer to 4.5.4 setBitmap Method/ ESC #B Escape Sequence |
| setLogo | ✓ | | |
| transactionPrint | ✓ | | |
| validateData | ✓ | | |

4.2. POS Printer Property Relations

CT-D101

| Property | Attribute | Status of support by the driver (CITIZEN D101 *) | | Notes |
|---------------------------|-----------|---|--|---|
| AutoDisable | R/W | | Not applicable with POSPrinter | |
| CapCompareFirmwareVersion | R | | false | Not supported |
| CapPowerReporting | R | ✓ | JPOS_PR_ADVANCED | |
| CapStatisticsReporting | R | ✓ | true | |
| CapUpdateFirmware | R | | false | Not supported |
| CapUpdateStatistics | R | | false | Not supported |
| CheckHealthText | R | ✓ | | |
| Claimed | R | ✓ | | |
| DataCount | R | | Not applicable with POSPrinter | |
| DataEventEnabled | R/W | | Not applicable with POSPrinter | |
| DeviceEnabled | R/W | ✓ | | |
| FreezeEvents | R/W | ✓ | | |
| OutputID | R | ✓ | Increment (+1) | Refer to 4.5.8 OutputID Property/ OutputCompleteEvent Event |
| PowerNotify | R/W | ✓ | | |
| PowerState | R | ✓ | | |
| State | R | ✓ | | |
| DeviceControlDescription | R | ✓ | JavaPOS POSPrinter Device Control | |
| DeviceControlVersion | R | ✓ | 1014000 | |
| DeviceServiceDescription | R | ✓ | CITIZEN Service Object for Thermal Printers ver 1.14.*.* | |
| DeviceServiceVersion | R | ✓ | 1014*** | |
| PhysicalDeviceDescription | R | ✓ | Citizen Thermal POSPrinter | |
| PhysicalDeviceName | R | ✓ | CITIZEN CT-D101 POS Printer | |
| CapCharacterSet | R | ✓ | PTR_CCS_ASCII | |
| CapConcurrentJrnRec | R | | false | Unsupported hardware |
| CapConcurrentJrnSlp | R | | false | Unsupported hardware |
| CapConcurrentPageMode | R | | false | Unsupported hardware |
| CapConcurrentRecSlp | R | | false | Unsupported hardware |
| CapCoverSensor | R | ✓ | true | |
| CapTransaction | R | ✓ | true | |
| CapJrnPresent | R | | false | Unsupported hardware |
| CapJrn2Color | R | | false | Unsupported hardware |
| CapJrnBold | R | | false | Unsupported hardware |
| CapJrnDhigh | R | | false | Unsupported hardware |
| CapJrnDwide | R | | false | Unsupported hardware |
| CapJrnDwideDhigh | R | | false | Unsupported hardware |
| CapJrnEmptySensor | R | | false | Unsupported hardware |
| CapJrnItalic | R | | false | Unsupported hardware |
| CapJrnNearEndSensor | R | | false | Unsupported hardware |
| CapJrnUnderline | R | | false | Unsupported hardware |
| CapJrnCartridgeSensor | R | | false | Unsupported hardware |
| CapJrnColor | R | | false | Unsupported hardware |
| CapRecPresent | R | ✓ | true | |
| CapRec2Color | R | | false | Unsupported hardware |
| CapRecBarCode | R | ✓ | true | |
| CapRecBitmap | R | ✓ | true | |
| CapRecBold | R | ✓ | true | |
| CapRecDhigh | R | ✓ | true | |
| CapRecDwide | R | ✓ | true | |

| Property | Attribute | Status of support by the driver (CITIZEN D101 *) | | Notes |
|-----------------------|-----------|---|-----------------------|---|
| CapRecDwideDhigh | R | ✓ | true | |
| CapRecEmptySensor | R | ✓ | true | |
| CapRecItalic | R | | false | Unsupported hardware |
| CapRecLeft90 | R | ✓ | true | |
| CapRecNearEndSensor | R | | false | Unsupported hardware |
| CapRecPapercut | R | ✓ | true | |
| CapRecRight90 | R | ✓ | true | |
| CapRecRotate180 | R | ✓ | true | |
| CapRecRuledLine | R | | 0 | Unsupported hardware |
| CapRecStamp | R | | false | |
| CapRecUnderline | R | ✓ | true | |
| CapRecCartridgeSensor | R | | 0 | Unsupported hardware |
| CapRecColor | R | | PTR_COLOR_PRIMARY | Unsupported hardware |
| CapRecMarkFeed | R | | 0 | Unsupported hardware |
| CapRecPageMode | R | ✓ | true | |
| CapSlpPresent | R | | false | Unsupported hardware |
| CapSlpFullslip | R | | false | Unsupported hardware |
| CapSlp2Color | R | | false | Unsupported hardware |
| CapSlpBarCode | R | | false | Unsupported hardware |
| CapSlpBitmap | R | | false | Unsupported hardware |
| CapSlpBold | R | | false | Unsupported hardware |
| CapSlpDhigh | R | | false | Unsupported hardware |
| CapSlpDwide | R | | false | Unsupported hardware |
| CapSlpDwideDhigh | R | | false | Unsupported hardware |
| CapSlpEmptySensor | R | | false | Unsupported hardware |
| CapSlpItalic | R | | false | Unsupported hardware |
| CapSlpLeft90 | R | | false | Unsupported hardware |
| CapSlpNearEndSensor | R | | false | Unsupported hardware |
| CapSlpRight90 | R | | false | Unsupported hardware |
| CapSlpRotate180 | R | | false | Unsupported hardware |
| CapSlpRuledLine | R | | 0 | Unsupported hardware |
| CapSlpUnderline | R | | false | Unsupported hardware |
| CapSlpBothSidesPrint | R | | false | Unsupported hardware |
| CapSlpCartridgeSensor | R | | false | Unsupported hardware |
| CapSlpColor | R | | false | Unsupported hardware |
| CapSlpPageMode | R | | false | Unsupported hardware |
| AsyncMode | R/W | ✓ | true / false(default) | Refer to 4.5.6 AsyncMode Property |
| CartridgeNotify | R/W | | PTR_CN_DISABLED | |
| CharacterSet | R/W | ✓ | | |

| Property | Attribute | Status of support by the driver (CITIZEN D101 *) | Notes |
|----------------------------|-----------|---|--|
| CharacterSetList | R | ✓ 255:User Defined 437:Code437 850:Code850 Multilingual 860:Code860 Portugal 863:Code863 Canada-French 865:Code865 Norway 852:Code852 EasternEurope 858:Code858 864:Code864 Arabic 874:Code874 Thai Code 18 866:Code866 Russia 857:Code857 Turkey 932:KANA 936:Chinese 998:ASCII 999:Windows Code 1252:Windows Code 1258: Code1258 Vietnamese 65001: UTF-8 | |
| CoverOpen | R | ✓ TRUE: POS printer cover is open. FALSE: POS printer cover is closed. | |
| ErrorLevel | R | ✓ PTR_EL_NONE PTR_EL_RECOVERABLE PTR_EL_FATAL | Refer to 4.5.7 ErrorLevel Property |
| ErrorStation | R | ✓ PTR_S_RECEIPT | |
| ErrorString | R | ✓ | Description on present error is retained. |
| FontTypefaceList | R | ✓ 0,1,2 | |
| FlagWhenIdle | R/W | ✓ | |
| MapMode | R/W | ✓ PTR_MM_DOTS(default) PTR_MM_TWIPS PTR_MM_ENGLISH PTR_MM_METRIC | |
| PageModeArea | R | ✓ RecLineWidth,936 | |
| PageModeDescriptor | R | ✓ PTR_PM_BITMAP PTR_PM_BARCODE PTR_PM_BM_ROTATE PTR_PM_BC_ROTATE | |
| PageModeHorizontalPosition | R/W | ✓ 0(default) | |
| PageModePrintArea | R/W | ✓ 0,0,0,0(default) | |
| PageModePrintDirection | R/W | ✓ PTR_PD_LEFT_TO_RIGHT(default) PTR_PD_BOTTOM_TO_TOP PTR_PD_RIGHT_TO_LEFT PTR_PD_TOP_TO_BOTTOM | |
| PageModeStation | R/W | ✓ PTR_S_RECEIPT | |
| PageModeVerticalPosition | R/W | ✓ 0(default) | |
| RotateSpecial | R/W | ✓ PTR_RP_NORMAL(default) PTR_RP_RIGHT90 PTR_RP_LEFT90 PTR_RP_ROTATE180 | |
| JrnLineChars | R/W | | Unsupported hardware |
| JrnLineCharsList | R | | Unsupported hardware |
| JrnLineHeight | R/W | | Unsupported hardware |
| JrnLineSpacing | R/W | | Unsupported hardware |
| JrnLineWidth | R | | Unsupported hardware |
| JrnLetterQuality | R/W | | Unsupported hardware |
| JrnEmpty | R | | Unsupported hardware |
| JrnNearEnd | R | | Unsupported hardware |
| JrnCartridgeState | R | PTR_CART_UNKNOWN | Unsupported hardware |

| Property | Attribute | Status of support by the driver (CITIZEN D101 *) | | Notes |
|------------------------|-----------|---|--|--|
| JrnCurrentCartridge | R/W | | | Unsupported hardware |
| RecBarCodeRotationList | R | ✓ | 0, R90, L90, 180 | |
| RecBitmapRotationList | R | ✓ | Raster bit image mode: 0,R90,L90,180 NV bit image mode: 0,180 | |
| RecCartridgeState | R | | TR_CART_UNKNOWN | |
| RecCurrentCartridge | R/W | | PTR_COLOR_PRIMARY | |
| RecEmpty | R | ✓ | | |
| RecLetterQuality | R/W | | | Not supported |
| RecLineChars | R/W | ✓ | | Refer to 4.5.9 RecLineChars/RecLineCharsList Property |
| RecLineCharsList | R | ✓ | 58mm paper "30,40,45" "32,42,48" "35,46,52" 80mm paper "42,56,64" "48,64,72" | Refer to 4.5.9 RecLineChars/RecLineCharsList Property |
| RecLineHeight | R/W | ✓ | | The value is changed according to the RecLineChars property. |
| RecLineSpacing | R/W | ✓ | | Only if the value is smaller than RecLineHeight property, the value is changed in accordance with to the RecLineHeight property. |
| RecLinesToPaperCut | R | ✓ | | The value is changed according to the RecLineChars property. |
| RecLineWidth | R | ✓ | | The value is changed according to the RecLineChars property. |
| RecNearEnd | R | | | Unsupported hardware |
| RecSidewaysMaxLines | R | ✓ | | Refer to 4.5.11 RecSidewaysMaxLines Property |
| RecSidewaysMaxChars | R | ✓ | | Refer to 4.5.10 RecSidewaysMaxChars Property |
| SlpBarCodeRotationList | R | | | Unsupported hardware |
| SlpBitmapRotationList | R | | | Unsupported hardware |
| SlpCartridgeState | R | | PTR_CART_UNKNOWN | Unsupported hardware |
| SlpCurrentCartridge | R/W | | | Unsupported hardware |
| SlpEmpty | R | | | Unsupported hardware |
| SlpLetterQuality | R/W | | | Unsupported hardware |
| SlpLineChars | R/W | | | Unsupported hardware |
| SlpLineCharsList | R | | | Unsupported hardware |
| SlpLineHeight | R/W | | | Unsupported hardware |
| SlpLinesNearEndToEnd | R | | | Unsupported hardware |
| SlpLineSpacing | R/W | | | Unsupported hardware |
| SlpLineWidth | R | | | Unsupported hardware |
| SlpMaxLines | R | | | Unsupported hardware |
| SlpNearEnd | R | | | Unsupported hardware |
| SlpPrintSide | R | | PTR_PS_UNKNOWN | Unsupported hardware |
| SlpSidewaysMaxChars | R | | | Unsupported hardware |
| SlpSidewaysMaxLines | R | | | Unsupported hardware |

CT-D150

| Property | Attribute | Status of support by the driver (CITIZEN D150 *) | | Notes |
|---------------------------|-----------|--|--|--|
| AutoDisable | R/W | | Not applicable with POSPrinter | |
| CapCompareFirmwareVersion | R | | false | Not supported |
| CapPowerReporting | R | ✓ | JPOS_PR_ADVANCED | |
| CapStatisticsReporting | R | ✓ | true | |
| CapUpdateFirmware | R | | false | Not supported |
| CapUpdateStatistics | R | | false | Not supported |
| CheckHealthText | R | ✓ | | |
| Claimed | R | ✓ | | |
| DataCount | R | | Not applicable with POSPrinter | |
| DataEventEnabled | R/W | | Not applicable with POSPrinter | |
| DeviceEnabled | R/W | ✓ | | |
| FreezeEvents | R/W | ✓ | | |
| OutputID | R | ✓ | Increment (+1) | Refer to 4.5.8 OutputID Property/OutputCompleteEvent Event |
| PowerNotify | R/W | ✓ | | |
| PowerState | R | ✓ | | |
| State | R | ✓ | | |
| DeviceControlDescription | R | ✓ | JavaPOS POSPrinter Device Control | |
| DeviceControlVersion | R | ✓ | 1014000 | |
| DeviceServiceDescription | R | ✓ | CITIZEN Service Object for Thermal Printers ver 1.14.*.* | |
| DeviceServiceVersion | R | ✓ | 1014*** | |
| PhysicalDeviceDescription | R | ✓ | Citizen Thermal POSPrinter | |
| PhysicalDeviceName | R | ✓ | CITIZEN CT-D150 POS Printer | |
| CapCharacterSet | R | ✓ | PTR_CCS_ASCII | |
| CapConcurrentJrnRec | R | | false | Unsupported hardware |
| CapConcurrentJrnSlp | R | | false | Unsupported hardware |
| CapConcurrentPageMode | R | | false | Unsupported hardware |
| CapConcurrentRecSlp | R | | false | Unsupported hardware |
| CapCoverSensor | R | ✓ | true | |
| CapTransaction | R | ✓ | true | |
| CapJrnPresent | R | | false | Unsupported hardware |
| CapJrn2Color | R | | false | Unsupported hardware |
| CapJrnBold | R | | false | Unsupported hardware |
| CapJrnDhigh | R | | false | Unsupported hardware |
| CapJrnDwide | R | | false | Unsupported hardware |
| CapJrnDwideDhigh | R | | false | Unsupported hardware |
| CapJrnEmptySensor | R | | false | Unsupported hardware |
| CapJrnItalic | R | | false | Unsupported hardware |
| CapJrnNearEndSensor | R | | false | Unsupported hardware |
| CapJrnUnderline | R | | false | Unsupported hardware |
| CapJrnCartridgeSensor | R | | false | Unsupported hardware |
| CapJrnColor | R | | false | Unsupported hardware |
| CapRecPresent | R | ✓ | true | |
| CapRec2Color | R | | false | Unsupported hardware |
| CapRecBarCode | R | ✓ | true | |
| CapRecBitmap | R | ✓ | true | |
| CapRecBold | R | ✓ | true | |
| CapRecDhigh | R | ✓ | true | |
| CapRecDwide | R | ✓ | true | |
| CapRecDwideDhigh | R | ✓ | true | |
| CapRecEmptySensor | R | ✓ | true | |
| CapRecItalic | R | | false | Unsupported hardware |

| Property | Attribute | Status of support by the driver (CITIZEN D150 *) | Notes |
|-----------------------|-----------|--|---|
| CapRecLeft90 | R | ✓ true | |
| CapRecNearEndSensor | R | false | Unsupported hardware |
| CapRecPapercut | R | ✓ true | |
| CapRecRight90 | R | ✓ true | |
| CapRecRotate180 | R | ✓ true | |
| CapRecRuledLine | R | 0 | Unsupported hardware |
| CapRecStamp | R | false | |
| CapRecUnderline | R | ✓ true | |
| CapRecCartridgeSensor | R | 0 | Unsupported hardware |
| CapRecColor | R | PTR_COLOR_PRIMARY | Unsupported hardware |
| CapRecMarkFeed | R | 0 | Unsupported hardware |
| CapRecPageMode | R | ✓ true | |
| CapSlpPresent | R | false | Unsupported hardware |
| CapSlpFullslip | R | false | Unsupported hardware |
| CapSlp2Color | R | false | Unsupported hardware |
| CapSlpBarCode | R | false | Unsupported hardware |
| CapSlpBitmap | R | false | Unsupported hardware |
| CapSlpBold | R | false | Unsupported hardware |
| CapSlpDhigh | R | false | Unsupported hardware |
| CapSlpDwide | R | false | Unsupported hardware |
| CapSlpDwideDhigh | R | false | Unsupported hardware |
| CapSlpEmptySensor | R | false | Unsupported hardware |
| CapSlpItalic | R | false | Unsupported hardware |
| CapSlpLeft90 | R | false | Unsupported hardware |
| CapSlpNearEndSensor | R | false | Unsupported hardware |
| CapSlpRight90 | R | false | Unsupported hardware |
| CapSlpRotate180 | R | false | Unsupported hardware |
| CapSlpRuledLine | R | 0 | Unsupported hardware |
| CapSlpUnderline | R | false | Unsupported hardware |
| CapSlpBothSidesPrint | R | false | Unsupported hardware |
| CapSlpCartridgeSensor | R | false | Unsupported hardware |
| CapSlpColor | R | false | Unsupported hardware |
| CapSlpPageMode | R | false | Unsupported hardware |
| AsyncMode | R/W | ✓ true / false(default) | Refer to 4.5.6 AsyncMode Property |
| CartridgeNotify | R/W | PTR_CN_DISABLED | |
| CharacterSet | R/W | ✓ | |
| CharacterSetList | R | ✓ 255:User Defined 437:Code437 850:Code850 Multilingual 860:Code860 Portugal 863:Code863 Canada-French 865:Code865 Norway 852:Code852 EasternEurope 858:Code858 864:Code864 Arabic 874:Code874 Tai Code 18 866:Code866 Russia 857:Code857 Turkey 932:KANA 936:Chinese 998:ASCII 999:Windows Code 1252:Windows Code 1258: Code1258 Vietnamese 65001: UTF-8 | |
| CoverOpen | R | ✓ TRUE: POS printer cover is open. FALSE: POS printer cover is closed. | |

| Property | Attribute | Status of support by the driver (CITIZEN D150 *) | Notes |
|----------------------------|-----------|--|---|
| ErrorLevel | R | ✓ PTR_EL_NONE PTR_EL_RECOVERABLE PTR_EL_FATAL | Refer to 4.5.7 ErrorLevel Property |
| ErrorStation | R | ✓ PTR_S_RECEIPT | |
| ErrorString | R | ✓ | Description on present error is retained. |
| FontTypefaceList | R | ✓ 0,1,2 | |
| FlagWhenIdle | R/W | ✓ | |
| MapMode | R/W | ✓ PTR_MM_DOTS(default) PTR_MM_TWIPS PTR_MM_ENGLISH PTR_MM_METRIC | |
| PageModeArea | R | ✓ RecLineWidth,936 | |
| PageModeDescriptor | R | ✓ PTR_PM_BITMAP PTR_PM_BARCODE PTR_PM_BM_ROTATE PTR_PM_BC_ROTATE | |
| PageModeHorizontalPosition | R/W | ✓ 0(default) | |
| PageModePrintArea | R/W | ✓ 0,0,0,0(default) | |
| PageModePrintDirection | R/W | ✓ PTR_PD_LEFT_TO_RIGHT(default) PTR_PD_BOTTOM_TO_TOP PTR_PD_RIGHT_TO_LEFT PTR_PD_TOP_TO_BOTTOM | |
| PageModeStation | R/W | ✓ PTR_S_RECEIPT | |
| PageModeVerticalPosition | R/W | ✓ 0(default) | |
| RotateSpecial | R/W | ✓ PTR_RP_NORMAL(default) PTR_RP_RIGHT90 PTR_RP_LEFT90 PTR_RP_ROTATE180 | |
| JrnLineChars | R/W | | Unsupported hardware |
| JrnLineCharsList | R | | Unsupported hardware |
| JrnLineHeight | R/W | | Unsupported hardware |
| JrnLineSpacing | R/W | | Unsupported hardware |
| JrnLineWidth | R | | Unsupported hardware |
| JrnLetterQuality | R/W | | Unsupported hardware |
| JrnEmpty | R | | Unsupported hardware |
| JrnNearEnd | R | | Unsupported hardware |
| JrnCartridgeState | R | PTR_CART_UNKNOWN | Unsupported hardware |
| JrnCurrentCartridge | R/W | | Unsupported hardware |
| RecBarCodeRotationList | R | ✓ 0, R90, L90, 180 | |
| RecBitmapRotationList | R | ✓ Raster bit image mode: 0,R90,L90,180 NV bit image mode: 0,180 | |
| RecCartridgeState | R | TR_CART_UNKNOWN | |
| RecCurrentCartridge | R/W | PTR_COLOR_PRIMARY | |
| RecEmpty | R | ✓ | |
| RecLetterQuality | R/W | | Not supported |
| RecLineChars | R/W | ✓ | Refer to 4.5.9 RecLineChars/RecLineCharsList Property |
| RecLineCharsList | R | ✓ 58mm paper "30,40,45" "32,42,48" "35,46,52" 80mm paper "42,56,64" "48,64,72" | Refer to 4.5.9 RecLineChars/RecLineCharsList Property |
| RecLineHeight | R/W | ✓ | The value is changed according to the RecLineChars property. |

| Property | Attribute | Status of support by the driver (CITIZEN D150 *) | | Notes |
|------------------------|-----------|---|------------------|--|
| RecLineSpacing | R/W | ✓ | | Only if the value is smaller than RecLineHeight property, the value is changed in accordance with to the RecLineHeight property. |
| RecLinesToPaperCut | R | ✓ | | The value is changed according to the RecLineChars property. |
| RecLineWidth | R | ✓ | | The value is changed according to the RecLineChars property. |
| RecNearEnd | R | | | Unsupported hardware |
| RecSidewaysMaxLines | R | ✓ | | Refer to 4.5.11 RecSidewaysMaxLines Property |
| RecSidewaysMaxChars | R | ✓ | | Refer to 4.5.10 RecSidewaysMaxChars Property |
| SlpBarCodeRotationList | R | | | Unsupported hardware |
| SlpBitmapRotationList | R | | | Unsupported hardware |
| SlpCartridgeState | R | | PTR_CART_UNKNOWN | Unsupported hardware |
| SlpCurrentCartridge | R/W | | | Unsupported hardware |
| SlpEmpty | R | | | Unsupported hardware |
| SlpLetterQuality | R/W | | | Unsupported hardware |
| SlpLineChars | R/W | | | Unsupported hardware |
| SlpLineCharsList | R | | | Unsupported hardware |
| SlpLineHeight | R/W | | | Unsupported hardware |
| SlpLinesNearEndToEnd | R | | | Unsupported hardware |
| SlpLineSpacing | R/W | | | Unsupported hardware |
| SlpLineWidth | R | | | Unsupported hardware |
| SlpMaxLines | R | | | Unsupported hardware |
| SlpNearEnd | R | | | Unsupported hardware |
| SlpPrintSide | R | | PTR_PS_UNKNOWN | Unsupported hardware |
| SlpSidewaysMaxChars | R | | | Unsupported hardware |
| SlpSidewaysMaxLines | R | | | Unsupported hardware |

CT-D151

| Property | Attribute | Status of support by the driver (CITIZEN D151 *) | | Notes |
|---------------------------|-----------|---|--|---|
| AutoDisable | R/W | | Not applicable with POSPrinter | |
| CapCompareFirmwareVersion | R | | False | Not supported |
| CapPowerReporting | R | ✓ | JPOS_PR_ADVANCED | |
| CapStatisticsReporting | R | ✓ | True | |
| CapUpdateFirmware | R | | False | Not supported |
| CapUpdateStatistics | R | | False | Not supported |
| CheckHealthText | R | ✓ | | |
| Claimed | R | ✓ | | |
| DataCount | R | | Not applicable with POSPrinter | |
| DataEventEnabled | R/W | | Not applicable with POSPrinter | |
| DeviceEnabled | R/W | ✓ | | |
| FreezeEvents | R/W | ✓ | | |
| OutputID | R | ✓ | Increment (+1) | Refer to 4.5.8 OutputID Property/ OutputCompleteEvent Event |
| PowerNotify | R/W | ✓ | | |
| PowerState | R | ✓ | | |
| State | R | ✓ | Online and Ready state JPOS_PS_ONLINE(2001) Power off state JPOS_PS_OFF(2002) Not Ready state JPOS_PS_OFFLINE(2003) | |
| DeviceControlDescription | R | ✓ | JavaPOS POSPrinter Device Control | |
| DeviceControlVersion | R | ✓ | 1014000 | |
| DeviceServiceDescription | R | ✓ | CITIZEN Service Object for Thermal Printers ver 1.14.*.* | |
| DeviceServiceVersion | R | ✓ | 1014*** | |
| PhysicalDeviceDescription | R | ✓ | Citizen Thermal POSPrinter | |
| PhysicalDeviceName | R | ✓ | CITIZEN CT-D151 POS Printer | |
| CapCharacterSet | R | ✓ | PTR_CCS_ASCII | |
| CapConcurrentJrnRec | R | | false | Unsupported hardware |
| CapConcurrentJrnSlp | R | | false | Unsupported hardware |
| CapConcurrentPageMode | R | | false | Unsupported hardware |
| CapConcurrentRecSlp | R | | false | Unsupported hardware |
| CapCoverSensor | R | ✓ | true | |
| CapTransaction | R | ✓ | true | |
| CapJrnPresent | R | | false | Unsupported hardware |
| CapJrn2Color | R | | false | Unsupported hardware |
| CapJrnBold | R | | false | Unsupported hardware |
| CapJrnDhigh | R | | false | Unsupported hardware |
| CapJrnDwide | R | | false | Unsupported hardware |
| CapJrnDwideDhigh | R | | false | Unsupported hardware |
| CapJrnEmptySensor | R | | false | Unsupported hardware |
| CapJrnItalic | R | | false | Unsupported hardware |
| CapJrnNearEndSensor | R | | false | Unsupported hardware |
| CapJrnUnderline | R | | false | Unsupported hardware |
| CapJrnCartridgeSensor | R | | false | Unsupported hardware |
| CapJrnColor | R | | false | Unsupported hardware |
| CapRecPresent | R | ✓ | true | |
| CapRec2Color | R | | false | Unsupported hardware |
| CapRecBarCode | R | ✓ | true | |
| CapRecBitmap | R | ✓ | true | |
| CapRecBold | R | ✓ | true | |

| Property | Attribute | Status of support by the driver (CITIZEN D151 *) | | Notes |
|-----------------------|-----------|---|--|---|
| CapRecDhigh | R | ✓ | true | |
| CapRecDwide | R | ✓ | true | |
| CapRecDwideDhigh | R | ✓ | true | |
| CapRecEmptySensor | R | ✓ | true | |
| CapRecItalic | R | | false | Unsupported hardware |
| CapRecLeft90 | R | ✓ | true | |
| CapRecNearEndSensor | R | | false | Unsupported hardware |
| CapRecPapercut | R | ✓ | true | |
| CapRecRight90 | R | ✓ | true | |
| CapRecRotate180 | R | ✓ | true | |
| CapRecRuledLine | R | | 0 | Unsupported hardware |
| CapRecStamp | R | | false | |
| CapRecUnderline | R | ✓ | true | |
| CapRecCartridgeSensor | R | | 0 | Unsupported hardware |
| CapRecColor | R | | PTR_COLOR_PRIMARY | Unsupported hardware |
| CapRecMarkFeed | R | ✓ | PTR_MF_TO_CUTTER PTR_MF_TO_NEXT_TOF | |
| CapRecPageMode | R | ✓ | true | |
| CapSlpPresent | R | | false | Unsupported hardware |
| CapSlpFullslip | R | | false | Unsupported hardware |
| CapSlp2Color | R | | false | Unsupported hardware |
| CapSlpBarCode | R | | false | Unsupported hardware |
| CapSlpBitmap | R | | false | Unsupported hardware |
| CapSlpBold | R | | false | Unsupported hardware |
| CapSlpDhigh | R | | false | Unsupported hardware |
| CapSlpDwide | R | | false | Unsupported hardware |
| CapSlpDwideDhigh | R | | false | Unsupported hardware |
| CapSlpEmptySensor | R | | false | Unsupported hardware |
| CapSlpItalic | R | | false | Unsupported hardware |
| CapSlpLeft90 | R | | false | Unsupported hardware |
| CapSlpNearEndSensor | R | | false | Unsupported hardware |
| CapSlpRight90 | R | | false | Unsupported hardware |
| CapSlpRotate180 | R | | false | Unsupported hardware |
| CapSlpRuledLine | R | | 0 | Unsupported hardware |
| CapSlpUnderline | R | | false | Unsupported hardware |
| CapSlpBothSidesPrint | R | | false | Unsupported hardware |
| CapSlpCartridgeSensor | R | | false | Unsupported hardware |
| CapSlpColor | R | | false | Unsupported hardware |
| CapSlpPageMode | R | | false | Unsupported hardware |
| AsyncMode | R/W | ✓ | true / false(default) | Refer to 4.5.6 AsyncMode Property |
| CartridgeNotify | R/W | | PTR_CN_DISABLED | |
| CharacterSet | R/W | ✓ | | |

| Property | Attribute | Status of support by the driver (CITIZEN D151 *) | Notes |
|----------------------------|-----------|--|--|
| CharacterSetList | R | ✓ 255:User Defined 437:Code437 850:Code850 Multilingual 860:Code860 Portugal 863:Code863 Canada-French 865:Code865 Norway 852:Code852 EasternEurope 858:Code858 864:Code864 Arabic 874:Code874 Tai Code 18 866:Code866 Russia 857:Code857 Turkey 932:KANA 936:Chinese 998:ASCII 999:Windows Code 1252:Windows Code 1258: Code1258 Vietnamese 65001: UTF-8 | |
| CoverOpen | R | ✓ TRUE: POS printer cover is open. FALSE: POS printer cover is closed. | |
| ErrorLevel | R | ✓ PTR_EL_NONE PTR_EL_RECOVERABLE PTR_EL_FATAL | Refer to 4.5.7 ErrorLevel Property |
| ErrorStation | R | ✓ PTR_S_RECEIPT | |
| ErrorString | R | ✓ | Description on present error is retained. |
| FontTypefaceList | R | ✓ 0,1,2 | |
| FlagWhenIdle | R/W | ✓ | |
| MapMode | R/W | ✓ PTR_MM_DOTS(default) PTR_MM_TWIPS PTR_MM_ENGLISH PTR_MM_METRIC | |
| PageModeArea | R | ✓ RecLineWidth,936 | |
| PageModeDescriptor | R | ✓ PTR_PM_BITMAP PTR_PM_BARCODE PTR_PM_BM_ROTATE PTR_PM_BC_ROTATE | |
| PageModeHorizontalPosition | R/W | ✓ 0(default) | |
| PageModePrintArea | R/W | ✓ 0,0,0,0(default) | |
| PageModePrintDirection | R/W | ✓ PTR_PD_LEFT_TO_RIGHT(default) PTR_PD_BOTTOM_TO_TOP PTR_PD_RIGHT_TO_LEFT PTR_PD_TOP_TO_BOTTOM | |
| PageModeStation | R/W | ✓ PTR_S_RECEIPT | |
| PageModeVerticalPosition | R/W | ✓ 0(default) | |
| RotateSpecial | R/W | ✓ PTR_RP_NORMAL(default) PTR_RP_RIGHT90 PTR_RP_LEFT90 PTR_RP_ROTATE180 | |
| JrnLineChars | R/W | | Unsupported hardware |
| JrnLineCharsList | R | | Unsupported hardware |
| JrnLineHeight | R/W | | Unsupported hardware |
| JrnLineSpacing | R/W | | Unsupported hardware |
| JrnLineWidth | R | | Unsupported hardware |
| JrnLetterQuality | R/W | | Unsupported hardware |
| JrnEmpty | R | | Unsupported hardware |
| JrnNearEnd | R | | Unsupported hardware |
| JrnCartridgeState | R | PTR_CART_UNKNOWN | Unsupported hardware |

| Property | Attribute | Status of support by the driver (CITIZEN D151 *) | | Notes |
|------------------------|-----------|---|--|--|
| JrnCurrentCartridge | R/W | | | Unsupported hardware |
| RecBarCodeRotationList | R | ✓ | 0, R90, L90, 180 | |
| RecBitmapRotationList | R | ✓ | Raster bit image mode: 0,R90,L90,180 NV bit image mode: 0,180 | |
| RecCartridgeState | R | | TR_CART_UNKNOWN | |
| RecCurrentCartridge | R/W | | PTR_COLOR_PRIMARY | |
| RecEmpty | R | ✓ | | |
| RecLetterQuality | R/W | | | Not supported |
| RecLineChars | R/W | ✓ | | Refer to 4.5.9 RecLineChars/RecLineCharsList Property |
| RecLineCharsList | R | ✓ | 58mm paper "30,40,45" "32,42,48" "35,46,52" 80mm paper "42,56,64" "48,64,72" | Refer to 4.5.9 RecLineChars/RecLineCharsList Property |
| RecLineHeight | R/W | ✓ | | The value is changed according to the RecLineChars property. |
| RecLineSpacing | R/W | ✓ | | Only if the value is smaller than RecLineHeight property, the value is changed in accordance with to the RecLineHeight property. |
| RecLinesToPaperCut | R | ✓ | | The value is changed according to the RecLineChars property. |
| RecLineWidth | R | ✓ | | The value is changed according to the RecLineChars property. |
| RecNearEnd | R | | | Unsupported hardware |
| RecSidewaysMaxLines | R | ✓ | | Refer to 4.5.11 RecSidewaysMaxLines Property |
| RecSidewaysMaxChars | R | ✓ | | Refer to 4.5.10 RecSidewaysMaxChars Property |
| SlpBarCodeRotationList | R | | | Unsupported hardware |
| SlpBitmapRotationList | R | | | Unsupported hardware |
| SlpCartridgeState | R | | PTR_CART_UNKNOWN | Unsupported hardware |
| SlpCurrentCartridge | R/W | | | Unsupported hardware |
| SlpEmpty | R | | | Unsupported hardware |
| SlpLetterQuality | R/W | | | Unsupported hardware |
| SlpLineChars | R/W | | | Unsupported hardware |
| SlpLineCharsList | R | | | Unsupported hardware |
| SlpLineHeight | R/W | | | Unsupported hardware |
| SlpLinesNearEndToEnd | R | | | Unsupported hardware |
| SlpLineSpacing | R/W | | | Unsupported hardware |
| SlpLineWidth | R | | | Unsupported hardware |
| SlpMaxLines | R | | | Unsupported hardware |
| SlpNearEnd | R | | | Unsupported hardware |
| SlpPrintSide | R | | PTR_PS_UNKNOWN | Unsupported hardware |
| SlpSidewaysMaxChars | R | | | Unsupported hardware |
| SlpSidewaysMaxLines | R | | | Unsupported hardware |

CT-E301

| Property | Attribute | Status of support by the driver (CITIZEN E301 *) | | Notes |
|---------------------------|-----------|---|--|---|
| AutoDisable | R/W | | Not applicable with POSPrinter | |
| CapCompareFirmwareVersion | R | | false | Not supported |
| CapPowerReporting | R | ✓ | JPOS_PR_ADVANCED | |
| CapStatisticsReporting | R | ✓ | true | |
| CapUpdateFirmware | R | | false | Not supported |
| CapUpdateStatistics | R | | false | Not supported |
| CheckHealthText | R | ✓ | | |
| Claimed | R | ✓ | | |
| DataCount | R | | Not applicable with POSPrinter | |
| DataEventEnabled | R/W | | Not applicable with POSPrinter | |
| DeviceEnabled | R/W | ✓ | | |
| FreezeEvents | R/W | ✓ | | |
| OutputID | R | ✓ | Increment (+1) | Refer to 4.5.8 OutputID Property/ OutputCompleteEvent Event |
| PowerNotify | R/W | ✓ | | |
| PowerState | R | ✓ | | |
| State | R | ✓ | | |
| DeviceControlDescription | R | ✓ | JavaPOS POSPrinter Device Control | |
| DeviceControlVersion | R | ✓ | 1014000 | |
| DeviceServiceDescription | R | ✓ | CITIZEN Service Object for Thermal Printers ver 1.14.*.* | |
| DeviceServiceVersion | R | ✓ | 1014*** | |
| PhysicalDeviceDescription | R | ✓ | Citizen Thermal POSPrinter | |
| PhysicalDeviceName | R | ✓ | CITIZEN CT-E301 POS Printer | |
| CapCharacterSet | R | ✓ | PTR_CCS_ASCII | |
| CapConcurrentJrnRec | R | | false | Unsupported hardware |
| CapConcurrentJrnSlp | R | | false | Unsupported hardware |
| CapConcurrentPageMode | R | | false | Unsupported hardware |
| CapConcurrentRecSlp | R | | false | Unsupported hardware |
| CapCoverSensor | R | ✓ | true | |
| CapTransaction | R | ✓ | true | |
| CapJrnPresent | R | | false | Unsupported hardware |
| CapJrn2Color | R | | false | Unsupported hardware |
| CapJrnBold | R | | false | Unsupported hardware |
| CapJrnDhigh | R | | false | Unsupported hardware |
| CapJrnDwide | R | | false | Unsupported hardware |
| CapJrnDwideDhigh | R | | false | Unsupported hardware |
| CapJrnEmptySensor | R | | false | Unsupported hardware |
| CapJrnItalic | R | | false | Unsupported hardware |
| CapJrnNearEndSensor | R | | false | Unsupported hardware |
| CapJrnUnderline | R | | false | Unsupported hardware |
| CapJrnCartridgeSensor | R | | false | Unsupported hardware |
| CapJrnColor | R | | false | Unsupported hardware |
| CapRecPresent | R | ✓ | true | |
| CapRec2Color | R | | false | Unsupported hardware |
| CapRecBarCode | R | ✓ | true | |
| CapRecBitmap | R | ✓ | true | |
| CapRecBold | R | ✓ | true | |
| CapRecDhigh | R | ✓ | true | |
| CapRecDwide | R | ✓ | true | |
| CapRecDwideDhigh | R | ✓ | true | |
| CapRecEmptySensor | R | ✓ | true | |
| CapRecItalic | R | | false | Unsupported hardware |

| Property | Attribute | Status of support by the driver (CITIZEN E301 *) | | Notes |
|-----------------------|-----------|---|--|---|
| CapRecLeft90 | R | ✓ | true | |
| CapRecNearEndSensor | R | | false | Unsupported hardware |
| CapRecPapercut | R | ✓ | true | |
| CapRecRight90 | R | ✓ | true | |
| CapRecRotate180 | R | ✓ | true | |
| CapRecRuledLine | R | | 0 | Unsupported hardware |
| CapRecStamp | R | | false | |
| CapRecUnderline | R | ✓ | true | |
| CapRecCartridgeSensor | R | | 0 | Unsupported hardware |
| CapRecColor | R | | PTR_COLOR_PRIMARY | Unsupported hardware |
| CapRecMarkFeed | R | | 0 | Unsupported hardware |
| CapRecPageMode | R | ✓ | true | |
| CapSlpPresent | R | | false | Unsupported hardware |
| CapSlpFullslip | R | | false | Unsupported hardware |
| CapSlp2Color | R | | false | Unsupported hardware |
| CapSlpBarCode | R | | false | Unsupported hardware |
| CapSlpBitmap | R | | false | Unsupported hardware |
| CapSlpBold | R | | false | Unsupported hardware |
| CapSlpDhigh | R | | false | Unsupported hardware |
| CapSlpDwide | R | | false | Unsupported hardware |
| CapSlpDwideDhigh | R | | false | Unsupported hardware |
| CapSlpEmptySensor | R | | false | Unsupported hardware |
| CapSlpItalic | R | | false | Unsupported hardware |
| CapSlpLeft90 | R | | false | Unsupported hardware |
| CapSlpNearEndSensor | R | | false | Unsupported hardware |
| CapSlpRight90 | R | | false | Unsupported hardware |
| CapSlpRotate180 | R | | false | Unsupported hardware |
| CapSlpRuledLine | R | | 0 | Unsupported hardware |
| CapSlpUnderline | R | | false | Unsupported hardware |
| CapSlpBothSidesPrint | R | | false | Unsupported hardware |
| CapSlpCartridgeSensor | R | | false | Unsupported hardware |
| CapSlpColor | R | | false | Unsupported hardware |
| CapSlpPageMode | R | | false | Unsupported hardware |
| AsyncMode | R/W | ✓ | true / false(default) | Refer to 4.5.6 AsyncMode Property |
| CartridgeNotify | R/W | | PTR_CN_DISABLED | |
| CharacterSet | R/W | ✓ | | |
| CharacterSetList | R | ✓ | 255:User Defined 437:Code437 850:Code850 Multilingual 860:Code860 Portugal 863:Code863 Canada-French 865:Code865 Norway 852:Code852 EasternEurope 858:Code858 864:Code864 Arabic 874:Code874 Thai Code 18 866:Code866 Russia 857:Code857 Turkey 932:KANA 936:Chinese 998:ASCII 999:Windows Code 1252:Windows Code 1258: Code1258 Vietnamese 65001: UTF-8 | |
| CoverOpen | R | ✓ | TRUE: POS printer cover is open. FALSE: POS printer cover is closed. | |

| Property | Attribute | Status of support by the driver (CITIZEN E301 *) | | Notes |
|----------------------------|-----------|---|---|---|
| ErrorLevel | R | ✓ | PTR_EL_NONE PTR_EL_RECOVERABLE PTR_EL_FATAL | Refer to 4.5.7 ErrorLevel Property |
| ErrorStation | R | ✓ | PTR_S_RECEIPT | |
| ErrorString | R | ✓ | | Description on present error is retained. |
| FontTypefaceList | R | ✓ | 0,1,2 | |
| FlagWhenIdle | R/W | ✓ | | |
| MapMode | R/W | ✓ | PTR_MM_DOTS(default) PTR_MM_TWIPS PTR_MM_ENGLISH PTR_MM_METRIC | |
| PageModeArea | R | ✓ | RecLineWidth,936 | |
| PageModeDescriptor | R | ✓ | PTR_PM_BITMAP PTR_PM_BARCODE PTR_PM_BM_ROTATE PTR_PM_BC_ROTATE | |
| PageModeHorizontalPosition | R/W | ✓ | 0(default) | |
| PageModePrintArea | R/W | ✓ | 0,0,0,0(default) | |
| PageModePrintDirection | R/W | ✓ | PTR_PD_LEFT_TO_RIGHT(default) PTR_PD_BOTTOM_TO_TOP PTR_PD_RIGHT_TO_LEFT PTR_PD_TOP_TO_BOTTOM | |
| PageModeStation | R/W | ✓ | PTR_S_RECEIPT | |
| PageModeVerticalPosition | R/W | ✓ | 0(default) | |
| RotateSpecial | R/W | ✓ | PTR_RP_NORMAL(default) PTR_RP_RIGHT90 PTR_RP_LEFT90 PTR_RP_ROTATE180 | |
| JrnLineChars | R/W | | | Unsupported hardware |
| JrnLineCharsList | R | | | Unsupported hardware |
| JrnLineHeight | R/W | | | Unsupported hardware |
| JrnLineSpacing | R/W | | | Unsupported hardware |
| JrnLineWidth | R | | | Unsupported hardware |
| JrnLetterQuality | R/W | | | Unsupported hardware |
| JrnEmpty | R | | | Unsupported hardware |
| JrnNearEnd | R | | | Unsupported hardware |
| JrnCartridgeState | R | | PTR_CART_UNKNOWN | Unsupported hardware |
| JrnCurrentCartridge | R/W | | | Unsupported hardware |
| RecBarCodeRotationList | R | ✓ | 0, R90, L90, 180 | |
| RecBitmapRotationList | R | ✓ | Raster bit image mode: 0,R90,L90,180 NV bit image mode: 0,180 | |
| RecCartridgeState | R | | TR_CART_UNKNOWN | |
| RecCurrentCartridge | R/W | | PTR_COLOR_PRIMARY | |
| RecEmpty | R | ✓ | | |
| RecLetterQuality | R/W | | | Not supported |
| RecLineChars | R/W | ✓ | | Refer to 4.5.9 RecLineChars/RecLineCharsList Property |
| RecLineCharsList | R | ✓ | 58mm paper "30,40,45" "32,42,48" "35,46,52" 80mm paper "42,56,64" "48,64,72" | Refer to 4.5.9 RecLineChars/RecLineCharsList Property |
| RecLineHeight | R/W | ✓ | | The value is changed according to the RecLineChars property. |

| Property | Attribute | Status of support by the driver (CITIZEN E301 *) | | Notes |
|------------------------|-----------|---|------------------|--|
| RecLineSpacing | R/W | ✓ | | Only if the value is smaller than RecLineHeight property, the value is changed in accordance with to the RecLineHeight property. |
| RecLinesToPaperCut | R | ✓ | | The value is changed according to the RecLineChars property. |
| RecLineWidth | R | ✓ | | The value is changed according to the RecLineChars property. |
| RecNearEnd | R | | | Unsupported hardware |
| RecSidewaysMaxLines | R | ✓ | | Refer to 4.5.11 RecSidewaysMaxLines Property |
| RecSidewaysMaxChars | R | ✓ | | Refer to 4.5.10 RecSidewaysMaxChars Property |
| SlpBarCodeRotationList | R | | | Unsupported hardware |
| SlpBitmapRotationList | R | | | Unsupported hardware |
| SlpCartridgeState | R | | PTR_CART_UNKNOWN | Unsupported hardware |
| SlpCurrentCartridge | R/W | | | Unsupported hardware |
| SlpEmpty | R | | | Unsupported hardware |
| SlpLetterQuality | R/W | | | Unsupported hardware |
| SlpLineChars | R/W | | | Unsupported hardware |
| SlpLineCharsList | R | | | Unsupported hardware |
| SlpLineHeight | R/W | | | Unsupported hardware |
| SlpLinesNearEndToEnd | R | | | Unsupported hardware |
| SlpLineSpacing | R/W | | | Unsupported hardware |
| SlpLineWidth | R | | | Unsupported hardware |
| SlpMaxLines | R | | | Unsupported hardware |
| SlpNearEnd | R | | | Unsupported hardware |
| SlpPrintSide | R | | PTR_PS_UNKNOWN | Unsupported hardware |
| SlpSidewaysMaxChars | R | | | Unsupported hardware |
| SlpSidewaysMaxLines | R | | | Unsupported hardware |

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| Property | Attribute | Status of support by the driver (CITIZEN E351 *) | | Notes |
|---------------------------|-----------|--|--|--|
| AutoDisable | R/W | | Not applicable with POSPrinter | |
| CapCompareFirmwareVersion | R | | false | Not supported |
| CapPowerReporting | R | ✓ | JPOS_PR_ADVANCED | |
| CapStatisticsReporting | R | ✓ | true | |
| CapUpdateFirmware | R | | false | Not supported |
| CapUpdateStatistics | R | | false | Not supported |
| CheckHealthText | R | ✓ | | |
| Claimed | R | ✓ | | |
| DataCount | R | | Not applicable with POSPrinter | |
| DataEventEnabled | R/W | | Not applicable with POSPrinter | |
| DeviceEnabled | R/W | ✓ | | |
| FreezeEvents | R/W | ✓ | | |
| OutputID | R | ✓ | Increment (+1) | Refer to 4.5.8 OutputID Property/OutputCompleteEvent Event |
| PowerNotify | R/W | ✓ | | |
| PowerState | R | ✓ | | |
| State | R | ✓ | Online and Ready state JPOS_PS_ONLINE(2001) Power off state JPOS_PS_OFF(2002) Not Ready state JPOS_PS_OFFLINE(2003) | |
| DeviceControlDescription | R | ✓ | JavaPOS POSPrinter Device Control | |
| DeviceControlVersion | R | ✓ | 1014000 | |
| DeviceServiceDescription | R | ✓ | CITIZEN Service Object for Thermal Printers ver 1.14.*.* | |
| DeviceServiceVersion | R | ✓ | 1014*** | |
| PhysicalDeviceDescription | R | ✓ | Citizen Thermal POSPrinter | |
| PhysicalDeviceName | R | ✓ | CITIZEN CT-E351 POS Printer | |
| CapCharacterSet | R | ✓ | PTR_CCS_ASCII | |
| CapConcurrentJrnRec | R | | false | Unsupported hardware |
| CapConcurrentJrnSlp | R | | false | Unsupported hardware |
| CapConcurrentPageMode | R | | false | Unsupported hardware |
| CapConcurrentRecSlp | R | | false | Unsupported hardware |
| CapCoverSensor | R | ✓ | true | |
| CapTransaction | R | ✓ | true | |
| CapJrnPresent | R | | false | Unsupported hardware |
| CapJrn2Color | R | | false | Unsupported hardware |
| CapJrnBold | R | | false | Unsupported hardware |
| CapJrnDhigh | R | | false | Unsupported hardware |
| CapJrnDwide | R | | false | Unsupported hardware |
| CapJrnDwideDhigh | R | | false | Unsupported hardware |
| CapJrnEmptySensor | R | | false | Unsupported hardware |
| CapJrnItalic | R | | false | Unsupported hardware |
| CapJrnNearEndSensor | R | | false | Unsupported hardware |
| CapJrnUnderline | R | | false | Unsupported hardware |
| CapJrnCartridgeSensor | R | | false | Unsupported hardware |
| CapJrnColor | R | | false | Unsupported hardware |
| CapRecPresent | R | ✓ | true | |
| CapRec2Color | R | | false | Unsupported hardware |
| CapRecBarCode | R | ✓ | true | |
| CapRecBitmap | R | ✓ | true | |
| CapRecBold | R | ✓ | true | |

| Property | Attribute | Status of support by the driver (CITIZEN E351 *) | | Notes |
|-----------------------|-----------|---|-----------------------|---|
| CapRecDhigh | R | ✓ | true | |
| CapRecDwide | R | ✓ | true | |
| CapRecDwideDhigh | R | ✓ | true | |
| CapRecEmptySensor | R | ✓ | true | |
| CapRecItalic | R | | false | Unsupported hardware |
| CapRecLeft90 | R | ✓ | true | |
| CapRecNearEndSensor | R | | false | Unsupported hardware |
| CapRecPapercut | R | ✓ | true | |
| CapRecRight90 | R | ✓ | true | |
| CapRecRotate180 | R | ✓ | true | |
| CapRecRuledLine | R | | 0 | Unsupported hardware |
| CapRecStamp | R | | false | |
| CapRecUnderline | R | ✓ | true | |
| CapRecCartridgeSensor | R | | 0 | Unsupported hardware |
| CapRecColor | R | | PTR_COLOR_PRIMARY | Unsupported hardware |
| CapRecMarkFeed | R | | 0 | Unsupported hardware |
| CapRecPageMode | R | ✓ | true | |
| CapSlpPresent | R | | false | Unsupported hardware |
| CapSlpFullslip | R | | false | Unsupported hardware |
| CapSlp2Color | R | | false | Unsupported hardware |
| CapSlpBarCode | R | | false | Unsupported hardware |
| CapSlpBitmap | R | | false | Unsupported hardware |
| CapSlpBold | R | | false | Unsupported hardware |
| CapSlpDhigh | R | | false | Unsupported hardware |
| CapSlpDwide | R | | false | Unsupported hardware |
| CapSlpDwideDhigh | R | | false | Unsupported hardware |
| CapSlpEmptySensor | R | | false | Unsupported hardware |
| CapSlpItalic | R | | false | Unsupported hardware |
| CapSlpLeft90 | R | | false | Unsupported hardware |
| CapSlpNearEndSensor | R | | false | Unsupported hardware |
| CapSlpRight90 | R | | false | Unsupported hardware |
| CapSlpRotate180 | R | | false | Unsupported hardware |
| CapSlpRuledLine | R | | 0 | Unsupported hardware |
| CapSlpUnderline | R | | false | Unsupported hardware |
| CapSlpBothSidesPrint | R | | false | Unsupported hardware |
| CapSlpCartridgeSensor | R | | false | Unsupported hardware |
| CapSlpColor | R | | false | Unsupported hardware |
| CapSlpPageMode | R | | false | Unsupported hardware |
| AsyncMode | R/W | ✓ | true / false(default) | Refer to 4.5.6 AsyncMode Property |
| CartridgeNotify | R/W | | PTR_CN_DISABLED | |
| CharacterSet | R/W | ✓ | | |

| Property | Attribute | Status of support by the driver (CITIZEN E351 *) | Notes |
|----------------------------|-----------|--|--|
| CharacterSetList | R | ✓ 255:User Defined 437:Code437 850:Code850 Multilingual 860:Code860 Portugal 863:Code863 Canada-French 865:Code865 Norway 852:Code852 EasternEurope 858:Code858 864:Code864 Arabic 874:Code874 Tai Code 18 866:Code866 Russia 857:Code857 Turkey 932:KANA 936:Chinese 998:ASCII 999:Windows Code 1252:Windows Code 1258: Code1258 Vietnamese 65001: UTF-8 | |
| CoverOpen | R | ✓ TRUE: POS printer cover is open. FALSE: POS printer cover is closed. | |
| ErrorLevel | R | ✓ PTR_EL_NONE PTR_EL_RECOVERABLE PTR_EL_FATAL | Refer to 4.5.7 ErrorLevel Property |
| ErrorStation | R | ✓ PTR_S_RECEIPT | |
| ErrorString | R | ✓ | Description on present error is retained. |
| FontTypefaceList | R | ✓ 0,1,2 | |
| FlagWhenIdle | R/W | ✓ | |
| MapMode | R/W | ✓ PTR_MM_DOTS(default) PTR_MM_TWIPS PTR_MM_ENGLISH PTR_MM_METRIC | |
| PageModeArea | R | ✓ RecLineWidth,936 | |
| PageModeDescriptor | R | ✓ PTR_PM_BITMAP PTR_PM_BARCODE PTR_PM_BM_ROTATE PTR_PM_BC_ROTATE | |
| PageModeHorizontalPosition | R/W | ✓ 0(default) | |
| PageModePrintArea | R/W | ✓ 0,0,0,0(default) | |
| PageModePrintDirection | R/W | ✓ PTR_PD_LEFT_TO_RIGHT(default) PTR_PD_BOTTOM_TO_TOP PTR_PD_RIGHT_TO_LEFT PTR_PD_TOP_TO_BOTTOM | |
| PageModeStation | R/W | ✓ PTR_S_RECEIPT | |
| PageModeVerticalPosition | R/W | ✓ 0(default) | |
| RotateSpecial | R/W | ✓ PTR_RP_NORMAL(default) PTR_RP_RIGHT90 PTR_RP_LEFT90 PTR_RP_ROTATE180 | |
| JrnLineChars | R/W | | Unsupported hardware |
| JrnLineCharsList | R | | Unsupported hardware |
| JrnLineHeight | R/W | | Unsupported hardware |
| JrnLineSpacing | R/W | | Unsupported hardware |
| JrnLineWidth | R | | Unsupported hardware |
| JrnLetterQuality | R/W | | Unsupported hardware |
| JrnEmpty | R | | Unsupported hardware |
| JrnNearEnd | R | | Unsupported hardware |
| JrnCartridgeState | R | PTR_CART_UNKNOWN | Unsupported hardware |

| Property | Attribute | Status of support by the driver (CITIZEN E351 *) | | Notes |
|------------------------|-----------|---|--|--|
| JrnCurrentCartridge | R/W | | | Unsupported hardware |
| RecBarCodeRotationList | R | ✓ | 0, R90, L90, 180 | |
| RecBitmapRotationList | R | ✓ | Raster bit image mode: 0,R90,L90,180 NV bit image mode: 0,180 | |
| RecCartridgeState | R | | TR_CART_UNKNOWN | |
| RecCurrentCartridge | R/W | | PTR_COLOR_PRIMARY | |
| RecEmpty | R | ✓ | | |
| RecLetterQuality | R/W | | | Not supported |
| RecLineChars | R/W | ✓ | | Refer to 4.5.9 RecLineChars/RecLineCharsList Property |
| RecLineCharsList | R | ✓ | 58mm paper "30,40,45" "32,42,48" "35,46,52" 80mm paper "42,56,64" "48,64,72" | Refer to 4.5.9 RecLineChars/RecLineCharsList Property |
| RecLineHeight | R/W | ✓ | | The value is changed according to the RecLineChars property. |
| RecLineSpacing | R/W | ✓ | | Only if the value is smaller than RecLineHeight property, the value is changed in accordance with to the RecLineHeight property. |
| RecLinesToPaperCut | R | ✓ | | The value is changed according to the RecLineChars property. |
| RecLineWidth | R | ✓ | | The value is changed according to the RecLineChars property. |
| RecNearEnd | R | | | Unsupported hardware |
| RecSidewaysMaxLines | R | ✓ | | Refer to 4.5.11 RecSidewaysMaxLines Property |
| RecSidewaysMaxChars | R | ✓ | | Refer to 4.5.10 RecSidewaysMaxChars Property |
| SlpBarCodeRotationList | R | | | Unsupported hardware |
| SlpBitmapRotationList | R | | | Unsupported hardware |
| SlpCartridgeState | R | | PTR_CART_UNKNOWN | Unsupported hardware |
| SlpCurrentCartridge | R/W | | | Unsupported hardware |
| SlpEmpty | R | | | Unsupported hardware |
| SlpLetterQuality | R/W | | | Unsupported hardware |
| SlpLineChars | R/W | | | Unsupported hardware |
| SlpLineCharsList | R | | | Unsupported hardware |
| SlpLineHeight | R/W | | | Unsupported hardware |
| SlpLinesNearEndToEnd | R | | | Unsupported hardware |
| SlpLineSpacing | R/W | | | Unsupported hardware |
| SlpLineWidth | R | | | Unsupported hardware |
| SlpMaxLines | R | | | Unsupported hardware |
| SlpNearEnd | R | | | Unsupported hardware |
| SlpPrintSide | R | | PTR_PS_UNKNOWN | Unsupported hardware |
| SlpSidewaysMaxChars | R | | | Unsupported hardware |
| SlpSidewaysMaxLines | R | | | Unsupported hardware |

CT-E601

| Property | Attribute | Status of support by the driver (CITIZEN E601 *) | | Notes |
|---------------------------|-----------|---|--|---|
| AutoDisable | R/W | | Not applicable with POSPrinter | |
| CapCompareFirmwareVersion | R | | False | Not supported |
| CapPowerReporting | R | ✓ | JPOS_PR_ADVANCED | |
| CapStatisticsReporting | R | ✓ | True | |
| CapUpdateFirmware | R | | False | Not supported |
| CapUpdateStatistics | R | | False | Not supported |
| CheckHealthText | R | ✓ | | |
| Claimed | R | ✓ | | |
| DataCount | R | | Not applicable with POSPrinter | |
| DataEventEnabled | R/W | | Not applicable with POSPrinter | |
| DeviceEnabled | R/W | ✓ | | |
| FreezeEvents | R/W | ✓ | | |
| OutputID | R | ✓ | Increment (+1) | Refer to 4.5.8 OutputID Property/ OutputCompleteEvent Event |
| PowerNotify | R/W | ✓ | | |
| PowerState | R | ✓ | | |
| State | R | ✓ | Online and Ready state JPOS_PS_ONLINE(2001) Power off state JPOS_PS_OFF(2002) Not Ready state JPOS_PS_OFFLINE(2003) | |
| DeviceControlDescription | R | ✓ | JavaPOS POSPrinter Device Control | |
| DeviceControlVersion | R | ✓ | 1014000 | |
| DeviceServiceDescription | R | ✓ | CITIZEN Service Object for Thermal Printers ver 1.14.*.* | |
| DeviceServiceVersion | R | ✓ | 1014*** | |
| PhysicalDeviceDescription | R | ✓ | Citizen Thermal POSPrinter | |
| PhysicalDeviceName | R | ✓ | CITIZEN CT-E601 POS Printer | |
| CapCharacterSet | R | ✓ | PTR_CCS_ASCII | |
| CapConcurrentJrnRec | R | | false | Unsupported hardware |
| CapConcurrentJrnSlp | R | | false | Unsupported hardware |
| CapConcurrentPageMode | R | | false | Unsupported hardware |
| CapConcurrentRecSlp | R | | false | Unsupported hardware |
| CapCoverSensor | R | ✓ | true | |
| CapTransaction | R | ✓ | true | |
| CapJrnPresent | R | | false | Unsupported hardware |
| CapJrn2Color | R | | false | Unsupported hardware |
| CapJrnBold | R | | false | Unsupported hardware |
| CapJrnDhigh | R | | false | Unsupported hardware |
| CapJrnDwide | R | | false | Unsupported hardware |
| CapJrnDwideDhigh | R | | false | Unsupported hardware |
| CapJrnEmptySensor | R | | false | Unsupported hardware |
| CapJrnItalic | R | | false | Unsupported hardware |
| CapJrnNearEndSensor | R | | false | Unsupported hardware |
| CapJrnUnderline | R | | false | Unsupported hardware |
| CapJrnCartridgeSensor | R | | false | Unsupported hardware |
| CapJrnColor | R | | false | Unsupported hardware |
| CapRecPresent | R | ✓ | true | |
| CapRec2Color | R | | false | Unsupported hardware |
| CapRecBarCode | R | ✓ | true | |
| CapRecBitmap | R | ✓ | true | |
| CapRecBold | R | ✓ | true | |

| Property | Attribute | Status of support by the driver (CITIZEN E601 *) | | Notes |
|-----------------------|-----------|---|-----------------------|---|
| CapRecDhigh | R | ✓ | true | |
| CapRecDwide | R | ✓ | true | |
| CapRecDwideDhigh | R | ✓ | true | |
| CapRecEmptySensor | R | ✓ | true | |
| CapRecItalic | R | | false | Unsupported hardware |
| CapRecLeft90 | R | ✓ | true | |
| CapRecNearEndSensor | R | | false | Unsupported hardware |
| CapRecPapercut | R | ✓ | true | |
| CapRecRight90 | R | ✓ | true | |
| CapRecRotate180 | R | ✓ | true | |
| CapRecRuledLine | R | | 0 | Unsupported hardware |
| CapRecStamp | R | | false | |
| CapRecUnderline | R | ✓ | true | |
| CapRecCartridgeSensor | R | | 0 | Unsupported hardware |
| CapRecColor | R | | PTR_COLOR_PRIMARY | Unsupported hardware |
| CapRecMarkFeed | R | | 0 | Unsupported hardware |
| CapRecPageMode | R | ✓ | true | |
| CapSlpPresent | R | | false | Unsupported hardware |
| CapSlpFullslip | R | | false | Unsupported hardware |
| CapSlp2Color | R | | false | Unsupported hardware |
| CapSlpBarCode | R | | false | Unsupported hardware |
| CapSlpBitmap | R | | false | Unsupported hardware |
| CapSlpBold | R | | false | Unsupported hardware |
| CapSlpDhigh | R | | false | Unsupported hardware |
| CapSlpDwide | R | | false | Unsupported hardware |
| CapSlpDwideDhigh | R | | false | Unsupported hardware |
| CapSlpEmptySensor | R | | false | Unsupported hardware |
| CapSlpItalic | R | | false | Unsupported hardware |
| CapSlpLeft90 | R | | false | Unsupported hardware |
| CapSlpNearEndSensor | R | | false | Unsupported hardware |
| CapSlpRight90 | R | | false | Unsupported hardware |
| CapSlpRotate180 | R | | false | Unsupported hardware |
| CapSlpRuledLine | R | | 0 | Unsupported hardware |
| CapSlpUnderline | R | | false | Unsupported hardware |
| CapSlpBothSidesPrint | R | | false | Unsupported hardware |
| CapSlpCartridgeSensor | R | | false | Unsupported hardware |
| CapSlpColor | R | | false | Unsupported hardware |
| CapSlpPageMode | R | | false | Unsupported hardware |
| AsyncMode | R/W | ✓ | true / false(default) | Refer to 4.5.6 AsyncMode Property |
| CartridgeNotify | R/W | | PTR_CN_DISABLED | |
| CharacterSet | R/W | ✓ | | |

| Property | Attribute | Status of support by the driver (CITIZEN E601 *) | Notes |
|----------------------------|-----------|--|--|
| CharacterSetList | R | ✓ 255:User Defined 437:Code437 850:Code850 Multilingual 860:Code860 Portugal 863:Code863 Canada-French 865:Code865 Norway 852:Code852 EasternEurope 858:Code858 864:Code864 Arabic 874:Code874 Tai Code 18 866:Code866 Russia 857:Code857 Turkey 932:KANA 936:Chinese 998:ASCII 999:Windows Code 1252:Windows Code 1258: Code1258 Vietnamese 65001: UTF-8 | |
| CoverOpen | R | ✓ TRUE: POS printer cover is open. FALSE: POS printer cover is closed. | |
| ErrorLevel | R | ✓ PTR_EL_NONE PTR_EL_RECOVERABLE PTR_EL_FATAL | Refer to 4.5.7 ErrorLevel Property |
| ErrorStation | R | ✓ PTR_S_RECEIPT | |
| ErrorString | R | ✓ | Description on present error is retained. |
| FontTypefaceList | R | ✓ 0,1,2 | |
| FlagWhenIdle | R/W | ✓ | |
| MapMode | R/W | ✓ PTR_MM_DOTS(default) PTR_MM_TWIPS PTR_MM_ENGLISH PTR_MM_METRIC | |
| PageModeArea | R | ✓ RecLineWidth,936 | |
| PageModeDescriptor | R | ✓ PTR_PM_BITMAP PTR_PM_BARCODE PTR_PM_BM_ROTATE PTR_PM_BC_ROTATE | |
| PageModeHorizontalPosition | R/W | ✓ 0(default) | |
| PageModePrintArea | R/W | ✓ 0,0,0,0(default) | |
| PageModePrintDirection | R/W | ✓ PTR_PD_LEFT_TO_RIGHT(default) PTR_PD_BOTTOM_TO_TOP PTR_PD_RIGHT_TO_LEFT PTR_PD_TOP_TO_BOTTOM | |
| PageModeStation | R/W | ✓ PTR_S_RECEIPT | |
| PageModeVerticalPosition | R/W | ✓ 0(default) | |
| RotateSpecial | R/W | ✓ PTR_RP_NORMAL(default) PTR_RP_RIGHT90 PTR_RP_LEFT90 PTR_RP_ROTATE180 | |
| JrnLineChars | R/W | | Unsupported hardware |
| JrnLineCharsList | R | | Unsupported hardware |
| JrnLineHeight | R/W | | Unsupported hardware |
| JrnLineSpacing | R/W | | Unsupported hardware |
| JrnLineWidth | R | | Unsupported hardware |
| JrnLetterQuality | R/W | | Unsupported hardware |
| JrnEmpty | R | | Unsupported hardware |
| JrnNearEnd | R | | Unsupported hardware |
| JrnCartridgeState | R | PTR_CART_UNKNOWN | Unsupported hardware |

| Property | Attribute | Status of support by the driver (CITIZEN E601 *) | | Notes |
|------------------------|-----------|---|--|--|
| JrnCurrentCartridge | R/W | | | Unsupported hardware |
| RecBarCodeRotationList | R | ✓ | 0, R90, L90, 180 | |
| RecBitmapRotationList | R | ✓ | Raster bit image mode: 0,R90,L90,180 NV bit image mode: 0,180 | |
| RecCartridgeState | R | | TR_CART_UNKNOWN | |
| RecCurrentCartridge | R/W | | PTR_COLOR_PRIMARY | |
| RecEmpty | R | ✓ | | |
| RecLetterQuality | R/W | | | Not supported |
| RecLineChars | R/W | ✓ | | Refer to 4.5.9 RecLineChars/RecLineCharsList Property |
| RecLineCharsList | R | ✓ | 58mm paper "30,40,45" "32,42,48" "35,46,52" 80mm paper "42,56,64" "48,64,72" | Refer to 4.5.9 RecLineChars/RecLineCharsList Property |
| RecLineHeight | R/W | ✓ | | The value is changed according to the RecLineChars property. |
| RecLineSpacing | R/W | ✓ | | Only if the value is smaller than RecLineHeight property, the value is changed in accordance with to the RecLineHeight property. |
| RecLinesToPaperCut | R | ✓ | | The value is changed according to the RecLineChars property. |
| RecLineWidth | R | ✓ | | The value is changed according to the RecLineChars property. |
| RecNearEnd | R | | | Unsupported hardware |
| RecSidewaysMaxLines | R | ✓ | | Refer to 4.5.11 RecSidewaysMaxLines Property |
| RecSidewaysMaxChars | R | ✓ | | Refer to 4.5.10 RecSidewaysMaxChars Property |
| SlpBarCodeRotationList | R | | | Unsupported hardware |
| SlpBitmapRotationList | R | | | Unsupported hardware |
| SlpCartridgeState | R | | PTR_CART_UNKNOWN | Unsupported hardware |
| SlpCurrentCartridge | R/W | | | Unsupported hardware |
| SlpEmpty | R | | | Unsupported hardware |
| SlpLetterQuality | R/W | | | Unsupported hardware |
| SlpLineChars | R/W | | | Unsupported hardware |
| SlpLineCharsList | R | | | Unsupported hardware |
| SlpLineHeight | R/W | | | Unsupported hardware |
| SlpLinesNearEndToEnd | R | | | Unsupported hardware |
| SlpLineSpacing | R/W | | | Unsupported hardware |
| SlpLineWidth | R | | | Unsupported hardware |
| SlpMaxLines | R | | | Unsupported hardware |
| SlpNearEnd | R | | | Unsupported hardware |
| SlpPrintSide | R | | PTR_PS_UNKNOWN | Unsupported hardware |
| SlpSidewaysMaxChars | R | | | Unsupported hardware |
| SlpSidewaysMaxLines | R | | | Unsupported hardware |

CT-E651

| Property | Attribute | Status of support by the driver (CITIZEN E651 *) | | Notes |
|---------------------------|-----------|--|--|--|
| AutoDisable | R/W | | Not applicable with POSPrinter | |
| CapCompareFirmwareVersion | R | | False | Not supported |
| CapPowerReporting | R | ✓ | JPOS_PR_ADVANCED | |
| CapStatisticsReporting | R | ✓ | True | |
| CapUpdateFirmware | R | | False | Not supported |
| CapUpdateStatistics | R | | False | Not supported |
| CheckHealthText | R | ✓ | | |
| Claimed | R | ✓ | | |
| DataCount | R | | Not applicable with POSPrinter | |
| DataEventEnabled | R/W | | Not applicable with POSPrinter | |
| DeviceEnabled | R/W | ✓ | | |
| FreezeEvents | R/W | ✓ | | |
| OutputID | R | ✓ | Increment (+1) | Refer to 4.5.8 OutputID Property/OutputCompleteEvent Event |
| PowerNotify | R/W | ✓ | | |
| PowerState | R | ✓ | | |
| State | R | ✓ | Online and Ready state JPOS_PS_ONLINE(2001) Power off state JPOS_PS_OFF(2002) Not Ready state JPOS_PS_OFFLINE(2003) | |
| DeviceControlDescription | R | ✓ | JavaPOS POSPrinter Device Control | |
| DeviceControlVersion | R | ✓ | 1014000 | |
| DeviceServiceDescription | R | ✓ | CITIZEN Service Object for Thermal Printers ver 1.14.*.* | |
| DeviceServiceVersion | R | ✓ | 1014*** | |
| PhysicalDeviceDescription | R | ✓ | Citizen Thermal POSPrinter | |
| PhysicalDeviceName | R | ✓ | CITIZEN CT-E651 POS Printer | |
| CapCharacterSet | R | ✓ | PTR_CCS_ASCII | |
| CapConcurrentJrnRec | R | | false | Unsupported hardware |
| CapConcurrentJrnSlp | R | | false | Unsupported hardware |
| CapConcurrentPageMode | R | | false | Unsupported hardware |
| CapConcurrentRecSlp | R | | false | Unsupported hardware |
| CapCoverSensor | R | ✓ | true | |
| CapTransaction | R | ✓ | true | |
| CapJrnPresent | R | | false | Unsupported hardware |
| CapJrn2Color | R | | false | Unsupported hardware |
| CapJrnBold | R | | false | Unsupported hardware |
| CapJrnDhigh | R | | false | Unsupported hardware |
| CapJrnDwide | R | | false | Unsupported hardware |
| CapJrnDwideDhigh | R | | false | Unsupported hardware |
| CapJrnEmptySensor | R | | false | Unsupported hardware |
| CapJrnItalic | R | | false | Unsupported hardware |
| CapJrnNearEndSensor | R | | false | Unsupported hardware |
| CapJrnUnderline | R | | false | Unsupported hardware |
| CapJrnCartridgeSensor | R | | false | Unsupported hardware |
| CapJrnColor | R | | false | Unsupported hardware |
| CapRecPresent | R | ✓ | true | |
| CapRec2Color | R | | false | Unsupported hardware |
| CapRecBarCode | R | ✓ | true | |
| CapRecBitmap | R | ✓ | true | |
| CapRecBold | R | ✓ | true | |

| Property | Attribute | Status of support by the driver (CITIZEN E651 *) | | Notes |
|-----------------------|-----------|---|--|---|
| CapRecDhigh | R | ✓ | true | |
| CapRecDwide | R | ✓ | true | |
| CapRecDwideDhigh | R | ✓ | true | |
| CapRecEmptySensor | R | ✓ | true | |
| CapRecItalic | R | | false | Unsupported hardware |
| CapRecLeft90 | R | ✓ | true | |
| CapRecNearEndSensor | R | | false | Unsupported hardware |
| CapRecPapercut | R | ✓ | true | |
| CapRecRight90 | R | ✓ | true | |
| CapRecRotate180 | R | ✓ | true | |
| CapRecRuledLine | R | | 0 | Unsupported hardware |
| CapRecStamp | R | | false | |
| CapRecUnderline | R | ✓ | true | |
| CapRecCartridgeSensor | R | | 0 | Unsupported hardware |
| CapRecColor | R | | PTR_COLOR_PRIMARY | Unsupported hardware |
| CapRecMarkFeed | R | ✓ | PTR_MF_TO_CUTTER PTR_MF_TO_NEXT_TOF | |
| CapRecPageMode | R | ✓ | true | |
| CapSlpPresent | R | | false | Unsupported hardware |
| CapSlpFullslip | R | | false | Unsupported hardware |
| CapSlp2Color | R | | false | Unsupported hardware |
| CapSlpBarCode | R | | false | Unsupported hardware |
| CapSlpBitmap | R | | false | Unsupported hardware |
| CapSlpBold | R | | false | Unsupported hardware |
| CapSlpDhigh | R | | false | Unsupported hardware |
| CapSlpDwide | R | | false | Unsupported hardware |
| CapSlpDwideDhigh | R | | false | Unsupported hardware |
| CapSlpEmptySensor | R | | false | Unsupported hardware |
| CapSlpItalic | R | | false | Unsupported hardware |
| CapSlpLeft90 | R | | false | Unsupported hardware |
| CapSlpNearEndSensor | R | | false | Unsupported hardware |
| CapSlpRight90 | R | | false | Unsupported hardware |
| CapSlpRotate180 | R | | false | Unsupported hardware |
| CapSlpRuledLine | R | | 0 | Unsupported hardware |
| CapSlpUnderline | R | | false | Unsupported hardware |
| CapSlpBothSidesPrint | R | | false | Unsupported hardware |
| CapSlpCartridgeSensor | R | | false | Unsupported hardware |
| CapSlpColor | R | | false | Unsupported hardware |
| CapSlpPageMode | R | | false | Unsupported hardware |
| AsyncMode | R/W | ✓ | true / false(default) | Refer to 4.5.6 AsyncMode Property |
| CartridgeNotify | R/W | | PTR_CN_DISABLED | |
| CharacterSet | R/W | ✓ | | |

| Property | Attribute | Status of support by the driver (CITIZEN E651 *) | Notes |
|----------------------------|-----------|--|--|
| CharacterSetList | R | ✓ 255:User Defined 437:Code437 850:Code850 Multilingual 860:Code860 Portugal 863:Code863 Canada-French 865:Code865 Norway 852:Code852 EasternEurope 858:Code858 864:Code864 Arabic 874:Code874 Tai Code 18 866:Code866 Russia 857:Code857 Turkey 932:KANA 936:Chinese 998:ASCII 999:Windows Code 1252:Windows Code 1258: Code1258 Vietnamese 65001: UTF-8 | |
| CoverOpen | R | ✓ TRUE: POS printer cover is open. FALSE: POS printer cover is closed. | |
| ErrorLevel | R | ✓ PTR_EL_NONE PTR_EL_RECOVERABLE PTR_EL_FATAL | Refer to 4.5.7 ErrorLevel Property |
| ErrorStation | R | ✓ PTR_S_RECEIPT | |
| ErrorString | R | ✓ | Description on present error is retained. |
| FontTypefaceList | R | ✓ 0,1,2 | |
| FlagWhenIdle | R/W | ✓ | |
| MapMode | R/W | ✓ PTR_MM_DOTS(default) PTR_MM_TWIPS PTR_MM_ENGLISH PTR_MM_METRIC | |
| PageModeArea | R | ✓ RecLineWidth,936 | |
| PageModeDescriptor | R | ✓ PTR_PM_BITMAP PTR_PM_BARCODE PTR_PM_BM_ROTATE PTR_PM_BC_ROTATE | |
| PageModeHorizontalPosition | R/W | ✓ 0(default) | |
| PageModePrintArea | R/W | ✓ 0,0,0,0(default) | |
| PageModePrintDirection | R/W | ✓ PTR_PD_LEFT_TO_RIGHT(default) PTR_PD_BOTTOM_TO_TOP PTR_PD_RIGHT_TO_LEFT PTR_PD_TOP_TO_BOTTOM | |
| PageModeStation | R/W | ✓ PTR_S_RECEIPT | |
| PageModeVerticalPosition | R/W | ✓ 0(default) | |
| RotateSpecial | R/W | ✓ PTR_RP_NORMAL(default) PTR_RP_RIGHT90 PTR_RP_LEFT90 PTR_RP_ROTATE180 | |
| JrnLineChars | R/W | | Unsupported hardware |
| JrnLineCharsList | R | | Unsupported hardware |
| JrnLineHeight | R/W | | Unsupported hardware |
| JrnLineSpacing | R/W | | Unsupported hardware |
| JrnLineWidth | R | | Unsupported hardware |
| JrnLetterQuality | R/W | | Unsupported hardware |
| JrnEmpty | R | | Unsupported hardware |
| JrnNearEnd | R | | Unsupported hardware |
| JrnCartridgeState | R | PTR_CART_UNKNOWN | Unsupported hardware |

| Property | Attribute | Status of support by the driver (CITIZEN E651 *) | | Notes |
|------------------------|-----------|---|--|--|
| JrnCurrentCartridge | R/W | | | Unsupported hardware |
| RecBarCodeRotationList | R | ✓ | 0, R90, L90, 180 | |
| RecBitmapRotationList | R | ✓ | Raster bit image mode: 0,R90,L90,180 NV bit image mode: 0,180 | |
| RecCartridgeState | R | | TR_CART_UNKNOWN | |
| RecCurrentCartridge | R/W | | PTR_COLOR_PRIMARY | |
| RecEmpty | R | ✓ | | |
| RecLetterQuality | R/W | | | Not supported |
| RecLineChars | R/W | ✓ | | Refer to 4.5.9 RecLineChars/RecLineCharsList Property |
| RecLineCharsList | R | ✓ | 58mm paper "30,40,45" "32,42,48" "35,46,52" 80mm paper "42,56,64" "48,64,72" | Refer to 4.5.9 RecLineChars/RecLineCharsList Property |
| RecLineHeight | R/W | ✓ | | The value is changed according to the RecLineChars property. |
| RecLineSpacing | R/W | ✓ | | Only if the value is smaller than RecLineHeight property, the value is changed in accordance with to the RecLineHeight property. |
| RecLinesToPaperCut | R | ✓ | | The value is changed according to the RecLineChars property. |
| RecLineWidth | R | ✓ | | The value is changed according to the RecLineChars property. |
| RecNearEnd | R | | | Unsupported hardware |
| RecSidewaysMaxLines | R | ✓ | | Refer to 4.5.11 RecSidewaysMaxLines Property |
| RecSidewaysMaxChars | R | ✓ | | Refer to 4.5.10 RecSidewaysMaxChars Property |
| SlpBarCodeRotationList | R | | | Unsupported hardware |
| SlpBitmapRotationList | R | | | Unsupported hardware |
| SlpCartridgeState | R | | PTR_CART_UNKNOWN | Unsupported hardware |
| SlpCurrentCartridge | R/W | | | Unsupported hardware |
| SlpEmpty | R | | | Unsupported hardware |
| SlpLetterQuality | R/W | | | Unsupported hardware |
| SlpLineChars | R/W | | | Unsupported hardware |
| SlpLineCharsList | R | | | Unsupported hardware |
| SlpLineHeight | R/W | | | Unsupported hardware |
| SlpLinesNearEndToEnd | R | | | Unsupported hardware |
| SlpLineSpacing | R/W | | | Unsupported hardware |
| SlpLineWidth | R | | | Unsupported hardware |
| SlpMaxLines | R | | | Unsupported hardware |
| SlpNearEnd | R | | | Unsupported hardware |
| SlpPrintSide | R | | PTR_PS_UNKNOWN | Unsupported hardware |
| SlpSidewaysMaxChars | R | | | Unsupported hardware |
| SlpSidewaysMaxLines | R | | | Unsupported hardware |

CT-S251

| Property | Attribute | Status of support by the driver (CITIZEN S251 *) | | Notes |
|---------------------------|-----------|--|--|--|
| AutoDisable | R/W | | Not applicable with POSPrinter | |
| CapCompareFirmwareVersion | R | | false | Not supported |
| CapPowerReporting | R | ✓ | JPOS_PR_ADVANCED | |
| CapStatisticsReporting | R | ✓ | true | |
| CapUpdateFirmware | R | | false | Not supported |
| CapUpdateStatistics | R | | false | Not supported |
| CheckHealthText | R | ✓ | | |
| Claimed | R | ✓ | | |
| DataCount | R | | Not applicable with POSPrinter | |
| DataEventEnabled | R/W | | Not applicable with POSPrinter | |
| DeviceEnabled | R/W | ✓ | | |
| FreezeEvents | R/W | ✓ | | |
| OutputID | R | ✓ | Increment (+1) | Refer to 4.5.8 OutputID Property/OutputCompleteEvent Event |
| PowerNotify | R/W | ✓ | | |
| PowerState | R | ✓ | | |
| State | R | ✓ | Online and Ready state JPOS_PS_ONLINE(2001) Power off state JPOS_PS_OFF(2002) Not Ready state JPOS_PS_OFFLINE(2003) | |
| DeviceControlDescription | R | ✓ | JavaPOS POSPrinter Device Control | |
| DeviceControlVersion | R | ✓ | 1014000 | |
| DeviceServiceDescription | R | ✓ | CITIZEN Service Object for Thermal Printers ver 1.14.*.* | |
| DeviceServiceVersion | R | ✓ | 1014*** | |
| PhysicalDeviceDescription | R | ✓ | Citizen Thermal POSPrinter | |
| PhysicalDeviceName | R | ✓ | CITIZEN CT-S251 POS Printer | |
| CapCharacterSet | R | ✓ | PTR_CCS_ASCII | |
| CapConcurrentJrnRec | R | | false | Unsupported hardware |
| CapConcurrentJrnSlp | R | | false | Unsupported hardware |
| CapConcurrentPageMode | R | | false | Unsupported hardware |
| CapConcurrentRecSlp | R | | false | Unsupported hardware |
| CapCoverSensor | R | ✓ | true | |
| CapTransaction | R | ✓ | true | |
| CapJrnPresent | R | | false | Unsupported hardware |
| CapJrn2Color | R | | false | Unsupported hardware |
| CapJrnBold | R | | false | Unsupported hardware |
| CapJrnDhigh | R | | false | Unsupported hardware |
| CapJrnDwide | R | | false | Unsupported hardware |
| CapJrnDwideDhigh | R | | false | Unsupported hardware |
| CapJrnEmptySensor | R | | false | Unsupported hardware |
| CapJrnItalic | R | | false | Unsupported hardware |
| CapJrnNearEndSensor | R | | false | Unsupported hardware |
| CapJrnUnderline | R | | false | Unsupported hardware |
| CapJrnCartridgeSensor | R | | false | Unsupported hardware |
| CapJrnColor | R | | false | Unsupported hardware |
| CapRecPresent | R | ✓ | true | |
| CapRec2Color | R | | false | Unsupported hardware |
| CapRecBarCode | R | ✓ | true | |
| CapRecBitmap | R | ✓ | true | |
| CapRecBold | R | ✓ | true | |

| Property | Attribute | Status of support by the driver (CITIZEN S251 *) | | Notes |
|-----------------------|-----------|---|-----------------------|---|
| CapRecDhigh | R | ✓ | true | |
| CapRecDwide | R | ✓ | true | |
| CapRecDwideDhigh | R | ✓ | true | |
| CapRecEmptySensor | R | ✓ | true | |
| CapRecItalic | R | | false | Unsupported hardware |
| CapRecLeft90 | R | ✓ | true | |
| CapRecNearEndSensor | R | | false | Unsupported hardware |
| CapRecPapercut | R | ✓ | true | |
| CapRecRight90 | R | ✓ | true | |
| CapRecRotate180 | R | ✓ | true | |
| CapRecRuledLine | R | | 0 | Unsupported hardware |
| CapRecStamp | R | | false | |
| CapRecUnderline | R | ✓ | true | |
| CapRecCartridgeSensor | R | | 0 | Unsupported hardware |
| CapRecColor | R | | PTR_COLOR_PRIMARY | Unsupported hardware |
| CapRecMarkFeed | R | | 0 | Unsupported hardware |
| CapRecPageMode | R | ✓ | true | |
| CapSlpPresent | R | | false | Unsupported hardware |
| CapSlpFullslip | R | | false | Unsupported hardware |
| CapSlp2Color | R | | false | Unsupported hardware |
| CapSlpBarCode | R | | false | Unsupported hardware |
| CapSlpBitmap | R | | false | Unsupported hardware |
| CapSlpBold | R | | false | Unsupported hardware |
| CapSlpDhigh | R | | false | Unsupported hardware |
| CapSlpDwide | R | | false | Unsupported hardware |
| CapSlpDwideDhigh | R | | false | Unsupported hardware |
| CapSlpEmptySensor | R | | false | Unsupported hardware |
| CapSlpItalic | R | | false | Unsupported hardware |
| CapSlpLeft90 | R | | false | Unsupported hardware |
| CapSlpNearEndSensor | R | | false | Unsupported hardware |
| CapSlpRight90 | R | | false | Unsupported hardware |
| CapSlpRotate180 | R | | false | Unsupported hardware |
| CapSlpRuledLine | R | | 0 | Unsupported hardware |
| CapSlpUnderline | R | | false | Unsupported hardware |
| CapSlpBothSidesPrint | R | | false | Unsupported hardware |
| CapSlpCartridgeSensor | R | | false | Unsupported hardware |
| CapSlpColor | R | | false | Unsupported hardware |
| CapSlpPageMode | R | | false | Unsupported hardware |
| AsyncMode | R/W | ✓ | true / false(default) | Refer to 4.5.6 AsyncMode Property |
| CartridgeNotify | R/W | | PTR_CN_DISABLED | |
| CharacterSet | R/W | ✓ | | |

| Property | Attribute | Status of support by the driver (CITIZEN S251 *) | Notes |
|----------------------------|-----------|---|--|
| CharacterSetList | R | ✓ 255:User Defined 437:Code437 850:Code850 Multilingual 860:Code860 Portugal 863:Code863 Canada-French 865:Code865 Norway 852:Code852 EasternEurope 858:Code858 864:Code864 Arabic 874:Code874 Tai Code 18 866:Code866 Russia 857:Code857 Turkey 932:KANA 936:Chinese 998:ASCII 999:Windows Code 1252:Windows Code | |
| CoverOpen | R | ✓ TRUE: POS printer cover is open. FALSE: POS printer cover is closed. | |
| ErrorLevel | R | ✓ PTR_EL_NONE PTR_EL_RECOVERABLE PTR_EL_FATAL | Refer to 4.5.7 ErrorLevel Property |
| ErrorStation | R | ✓ PTR_S_RECEIPT | |
| ErrorString | R | ✓ | Description on present error is retained. |
| FontTypefaceList | R | ✓ 0,1,2 | |
| FlagWhenIdle | R/W | ✓ | |
| MapMode | R/W | ✓ PTR_MM_DOTS(default) PTR_MM_TWIPS PTR_MM_ENGLISH PTR_MM_METRIC | |
| PageModeArea | R | ✓ RecLineWidth,936 | |
| PageModeDescriptor | R | ✓ PTR_PM_BITMAP PTR_PM_BARCODE PTR_PM_BM_ROTATE PTR_PM_BC_ROTATE | |
| PageModeHorizontalPosition | R/W | ✓ 0(default) | |
| PageModePrintArea | R/W | ✓ 0,0,0,0(default) | |
| PageModePrintDirection | R/W | ✓ PTR_PD_LEFT_TO_RIGHT(default) PTR_PD_BOTTOM_TO_TOP PTR_PD_RIGHT_TO_LEFT PTR_PD_TOP_TO_BOTTOM | |
| PageModeStation | R/W | ✓ PTR_S_RECEIPT | |
| PageModeVerticalPosition | R/W | ✓ 0(default) | |
| RotateSpecial | R/W | ✓ PTR_RP_NORMAL(default) PTR_RP_RIGHT90 PTR_RP_LEFT90 PTR_RP_ROTATE180 | |
| JrnLineChars | R/W | | Unsupported hardware |
| JrnLineCharsList | R | | Unsupported hardware |
| JrnLineHeight | R/W | | Unsupported hardware |
| JrnLineSpacing | R/W | | Unsupported hardware |
| JrnLineWidth | R | | Unsupported hardware |
| JrnLetterQuality | R/W | | Unsupported hardware |
| JrnEmpty | R | | Unsupported hardware |
| JrnNearEnd | R | | Unsupported hardware |
| JrnCartridgeState | R | PTR_CART_UNKNOWN | Unsupported hardware |
| JrnCurrentCartridge | R/W | | Unsupported hardware |
| RecBarCodeRotationList | R | ✓ 0, R90, L90, 180 | |

| Property | Attribute | Status of support by the driver (CITIZEN S251 *) | | Notes |
|------------------------|-----------|---|--|--|
| RecBitmapRotationList | R | ✓ | Raster bit image mode: 0,R90,L90,180 NV bit image mode: 0,180 | |
| RecCartridgeState | R | | TR_CART_UNKNOWN | |
| RecCurrentCartridge | R/W | | PTR_COLOR_PRIMARY | |
| RecEmpty | R | ✓ | | |
| RecLetterQuality | R/W | | | Not supported |
| RecLineChars | R/W | ✓ | | Refer to 4.5.9 RecLineChars/ RecLineCharsList Property |
| RecLineCharsList | R | ✓ | 58mm paper "30,40,45" "32,42,48" "35,46,52" "36,48,54" | Refer to 4.5.9 RecLineChars/ RecLineCharsList Property |
| RecLineHeight | R/W | ✓ | | The value is changed according to the RecLineChars property. |
| RecLineSpacing | R/W | ✓ | | Only if the value is smaller than RecLineHeight property, the value is changed in accordance with to the RecLineHeight property. |
| RecLinesToPaperCut | R | ✓ | | The value is changed according to the RecLineChars property. |
| RecLineWidth | R | ✓ | | The value is changed according to the RecLineChars property. |
| RecNearEnd | R | ✓ | | |
| RecSidewaysMaxLines | R | ✓ | | Refer to 4.5.11 RecSidewaysMaxLines Property |
| RecSidewaysMaxChars | R | ✓ | | Refer to 4.5.10 RecSidewaysMaxChars Property |
| SlpBarcodeRotationList | R | | | Unsupported hardware |
| SlpBitmapRotationList | R | | | Unsupported hardware |
| SlpCartridgeState | R | | PTR_CART_UNKNOWN | Unsupported hardware |
| SlpCurrentCartridge | R/W | | | Unsupported hardware |
| SlpEmpty | R | | | Unsupported hardware |
| SlpLetterQuality | R/W | | | Unsupported hardware |
| SlpLineChars | R/W | | | Unsupported hardware |
| SlpLineCharsList | R | | | Unsupported hardware |
| SlpLineHeight | R/W | | | Unsupported hardware |
| SlpLinesNearEndToEnd | R | | | Unsupported hardware |
| SlpLineSpacing | R/W | | | Unsupported hardware |
| SlpLineWidth | R | | | Unsupported hardware |
| SlpMaxLines | R | | | Unsupported hardware |
| SlpNearEnd | R | | | Unsupported hardware |
| SlpPrintSide | R | | PTR_PS_UNKNOWN | Unsupported hardware |
| SlpSidewaysMaxChars | R | | | Unsupported hardware |
| SlpSidewaysMaxLines | R | | | Unsupported hardware |

CT-S281

| Property | Attribute | Status of support by the driver (CITIZEN S281 *) | | Notes |
|---------------------------|-----------|---|--|---|
| AutoDisable | R/W | | Not applicable with POSPrinter | |
| CapCompareFirmwareVersion | R | | false | Not supported |
| CapPowerReporting | R | ✓ | JPOS_PR_ADVANCED | |
| CapStatisticsReporting | R | ✓ | true | |
| CapUpdateFirmware | R | | false | Not supported |
| CapUpdateStatistics | R | | false | Not supported |
| CheckHealthText | R | ✓ | | |
| Claimed | R | ✓ | | |
| DataCount | R | | Not applicable with POSPrinter | |
| DataEventEnabled | R/W | | Not applicable with POSPrinter | |
| DeviceEnabled | R/W | ✓ | | |
| FreezeEvents | R/W | ✓ | | |
| OutputID | R | ✓ | Increment (+1) | Refer to 4.5.8 OutputID Property/ OutputCompleteEvent Event |
| PowerNotify | R/W | ✓ | | |
| PowerState | R | ✓ | | |
| State | R | ✓ | Online and Ready state JPOS_PS_ONLINE(2001) Power off state JPOS_PS_OFF(2002) Not Ready state JPOS_PS_OFFLINE(2003) | |
| DeviceControlDescription | R | ✓ | JavaPOS POSPrinter Device Control | |
| DeviceControlVersion | R | ✓ | 1014000 | |
| DeviceServiceDescription | R | ✓ | CITIZEN Service Object for Thermal Printers ver 1.14.*.* | |
| DeviceServiceVersion | R | ✓ | 1014*** | |
| PhysicalDeviceDescription | R | ✓ | Citizen Thermal POSPrinter | |
| PhysicalDeviceName | R | ✓ | CITIZEN CT-S281 POS Printer | |
| CapCharacterSet | R | ✓ | PTR_CCS_ASCII | |
| CapConcurrentJrnRec | R | | false | Unsupported hardware |
| CapConcurrentJrnSlp | R | | false | Unsupported hardware |
| CapConcurrentPageMode | R | | false | Unsupported hardware |
| CapConcurrentRecSlp | R | | false | Unsupported hardware |
| CapCoverSensor | R | ✓ | true | |
| CapTransaction | R | ✓ | true | |
| CapJrnPresent | R | | false | Unsupported hardware |
| CapJrn2Color | R | | false | Unsupported hardware |
| CapJrnBold | R | | false | Unsupported hardware |
| CapJrnDhigh | R | | false | Unsupported hardware |
| CapJrnDwide | R | | false | Unsupported hardware |
| CapJrnDwideDhigh | R | | false | Unsupported hardware |
| CapJrnEmptySensor | R | | false | Unsupported hardware |
| CapJrnItalic | R | | false | Unsupported hardware |
| CapJrnNearEndSensor | R | | false | Unsupported hardware |
| CapJrnUnderline | R | | false | Unsupported hardware |
| CapJrnCartridgeSensor | R | | false | Unsupported hardware |
| CapJrnColor | R | | false | Unsupported hardware |
| CapRecPresent | R | ✓ | true | |
| CapRec2Color | R | ✓ | true | Using paper printable in 2 colors |
| CapRecBarCode | R | ✓ | true | |
| CapRecBitmap | R | ✓ | true | |
| CapRecBold | R | ✓ | true | |

| Property | Attribute | Status of support by the driver (CITIZEN S281 *) | | Notes |
|-----------------------|-----------|---|--|---|
| CapRecDhigh | R | ✓ | true | |
| CapRecDwide | R | ✓ | true | |
| CapRecDwideDhigh | R | ✓ | true | |
| CapRecEmptySensor | R | ✓ | true | |
| CapRecItalic | R | | false true | Unsupported hardware |
| CapRecLeft90 | R | ✓ | true | |
| CapRecNearEndSensor | R | ✓ | true | |
| CapRecPapercut | R | ✓ | true | |
| CapRecRight90 | R | ✓ | true | |
| CapRecRotate180 | R | ✓ | true | |
| CapRecRuledLine | R | | 0 | Unsupported hardware |
| CapRecStamp | R | | false | |
| CapRecUnderline | R | ✓ | true | |
| CapRecCartridgeSensor | R | ✓ | PTR_CART_OK | |
| CapRecColor | R | ✓ | PTR_COLOR_PRIMARY PTR_COLOR_CUSTOM1 | |
| CapRecMarkFeed | R | ✓ | PTR_MF_TO_CUTTER PTR_MF_TO_NEXT_TOF | |
| CapRecPageMode | R | ✓ | true | |
| CapSlpPresent | R | | false | Unsupported hardware |
| CapSlpFullslip | R | | false | Unsupported hardware |
| CapSlp2Color | R | | false | Unsupported hardware |
| CapSlpBarCode | R | | false | Unsupported hardware |
| CapSlpBitmap | R | | false | Unsupported hardware |
| CapSlpBold | R | | false | Unsupported hardware |
| CapSlpDhigh | R | | false | Unsupported hardware |
| CapSlpDwide | R | | false | Unsupported hardware |
| CapSlpDwideDhigh | R | | false | Unsupported hardware |
| CapSlpEmptySensor | R | | false | Unsupported hardware |
| CapSlpItalic | R | | false | Unsupported hardware |
| CapSlpLeft90 | R | | false | Unsupported hardware |
| CapSlpNearEndSensor | R | | false | Unsupported hardware |
| CapSlpRight90 | R | | false | Unsupported hardware |
| CapSlpRotate180 | R | | false | Unsupported hardware |
| CapSlpRuledLine | R | | 0 | Unsupported hardware |
| CapSlpUnderline | R | | false | Unsupported hardware |
| CapSlpBothSidesPrint | R | | false | Unsupported hardware |
| CapSlpCartridgeSensor | R | | false | Unsupported hardware |
| CapSlpColor | R | | false | Unsupported hardware |
| CapSlpPageMode | R | | false | Unsupported hardware |
| AsyncMode | R/W | ✓ | true / false(default) | Refer to 4.5.6 AsyncMode Property |
| CartridgeNotify | R/W | | PTR_CN_DISABLED | |
| CharacterSet | R/W | ✓ | | |

| Property | Attribute | Status of support by the driver (CITIZEN S281 *) | Notes |
|----------------------------|-----------|--|--|
| CharacterSetList | R | ✓ 255:User Defined 437:Code437 850:Code850 Multilingual 860:Code860 Portugal 863:Code863 Canada-French 865:Code865 Norway 852:Code852 EasternEurope 858:Code858 864:Code864 Arabic 874:Code874 Tai Code 18 866:Code866 Russia 857:Code857 Turkey 932:KANA 998:ASCII 999:Windows Code 1252:Windows Code | |
| CoverOpen | R | ✓ TRUE: POS printer cover is open. FALSE: POS printer cover is closed. | |
| ErrorLevel | R | ✓ PTR_EL_NONE PTR_EL_RECOVERABLE PTR_EL_FATAL | Refer to 4.5.7 ErrorLevel Property |
| ErrorStation | R | ✓ PTR_S_RECEIPT | |
| ErrorString | R | ✓ | Description on present error is retained. |
| FontTypefaceList | R | ✓ 0,1,2 | |
| FlagWhenIdle | R/W | ✓ | |
| MapMode | R/W | ✓ PTR_MM_DOTS(default) PTR_MM_TWIPS PTR_MM_ENGLISH PTR_MM_METRIC | |
| PageModeArea | R | ✓ RecLineWidth,936 | |
| PageModeDescriptor | R | ✓ PTR_PM_BITMAP PTR_PM_BARCODE PTR_PM_BM_ROTATE PTR_PM_BC_ROTATE | |
| PageModeHorizontalPosition | R/W | ✓ 0(default) | |
| PageModePrintArea | R/W | ✓ 0,0,0,0(default) | |
| PageModePrintDirection | R/W | ✓ PTR_PD_LEFT_TO_RIGHT(default) PTR_PD_BOTTOM_TO_TOP PTR_PD_RIGHT_TO_LEFT PTR_PD_TOP_TO_BOTTOM | |
| PageModeStation | R/W | ✓ PTR_S_RECEIPT | |
| PageModeVerticalPosition | R/W | ✓ 0(default) | |
| RotateSpecial | R/W | ✓ PTR_RP_NORMAL(default) PTR_RP_RIGHT90 PTR_RP_LEFT90 PTR_RP_ROTATE180 | |
| JrnLineChars | R/W | | Unsupported hardware |
| JrnLineCharsList | R | | Unsupported hardware |
| JrnLineHeight | R/W | | Unsupported hardware |
| JrnLineSpacing | R/W | | Unsupported hardware |
| JrnLineWidth | R | | Unsupported hardware |
| JrnLetterQuality | R/W | | Unsupported hardware |
| JrnEmpty | R | | Unsupported hardware |
| JrnNearEnd | R | | Unsupported hardware |
| JrnCartridgeState | R | PTR_CART_UNKNOWN | Unsupported hardware |
| JrnCurrentCartridge | R/W | | Unsupported hardware |
| RecBarCodeRotationList | R | ✓ 0, R90, L90, 180 | |
| RecBitmapRotationList | R | ✓ Raster bit image mode: 0,R90,L90,180 | |

| Property | Attribute | Status of support by the driver (CITIZEN S281 *) | | Notes |
|------------------------|-----------|---|---|--|
| | | | NV bit image mode: 0,180 | |
| RecCartridgeState | R | | TR_CART_UNKNOWN | |
| RecCurrentCartridge | R/W | ✓ | PTR_COLOR_PRIMARY, PTR_COLOR_CUSTOM1 | |
| RecEmpty | R | ✓ | | |
| RecLetterQuality | R/W | | | Not supported |
| RecLineChars | R/W | ✓ | | Refer to 4.5.9 RecLineChars/ RecLineCharsList_Property |
| RecLineCharsList | R | ✓ | 58mm paper "30,40,45" "32,42,48" | Refer to 4.5.9 RecLineChars/ RecLineCharsList_Property |
| RecLineHeight | R/W | ✓ | | The value is changed according to the RecLineChars property. |
| RecLineSpacing | R/W | ✓ | | Only if the value is smaller than RecLineHeight property, the value is changed in accordance with to the RecLineHeight property. |
| RecLinesToPaperCut | R | ✓ | | The value is changed according to the RecLineChars property. |
| RecLineWidth | R | ✓ | | The value is changed according to the RecLineChars property. |
| RecNearEnd | R | ✓ | | |
| RecSidewaysMaxLines | R | ✓ | | Refer to 4.5.11 RecSidewaysMaxLines_Property |
| RecSidewaysMaxChars | R | ✓ | | Refer to 4.5.10 RecSidewaysMaxChars_Property |
| SlpBarcodeRotationList | R | | | Unsupported hardware |
| SlpBitmapRotationList | R | | | Unsupported hardware |
| SlpCartridgeState | R | | PTR_CART_UNKNOWN | Unsupported hardware |
| SlpCurrentCartridge | R/W | | | Unsupported hardware |
| SlpEmpty | R | | | Unsupported hardware |
| SlpLetterQuality | R/W | | | Unsupported hardware |
| SlpLineChars | R/W | | | Unsupported hardware |
| SlpLineCharsList | R | | | Unsupported hardware |
| SlpLineHeight | R/W | | | Unsupported hardware |
| SlpLinesNearEndToEnd | R | | | Unsupported hardware |
| SlpLineSpacing | R/W | | | Unsupported hardware |
| SlpLineWidth | R | | | Unsupported hardware |
| SlpMaxLines | R | | | Unsupported hardware |
| SlpNearEnd | R | | | Unsupported hardware |
| SlpPrintSide | R | | PTR_PS_UNKNOWN | Unsupported hardware |
| SlpSidewaysMaxChars | R | | | Unsupported hardware |
| SlpSidewaysMaxLines | R | | | Unsupported hardware |

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| Property | Attribute | Status of support by the driver (CITIZEN S310 *) | | Notes |
|---------------------------|-----------|---|--|---|
| AutoDisable | R/W | | Not applicable with POSPrinter | |
| CapCompareFirmwareVersion | R | | false | Not supported |
| CapPowerReporting | R | ✓ | JPOS_PR_ADVANCED | |
| CapStatisticsReporting | R | ✓ | true | |
| CapUpdateFirmware | R | | false | Not supported |
| CapUpdateStatistics | R | | false | Not supported |
| CheckHealthText | R | ✓ | | |
| Claimed | R | ✓ | | |
| DataCount | R | | Not applicable with POSPrinter | |
| DataEventEnabled | R/W | | Not applicable with POSPrinter | |
| DeviceEnabled | R/W | ✓ | | |
| FreezeEvents | R/W | ✓ | | |
| OutputID | R | ✓ | Increment (+1) | Refer to 4.5.8 OutputID Property/ OutputCompleteEvent Event |
| PowerNotify | R/W | ✓ | | |
| PowerState | R | ✓ | | |
| State | R | ✓ | Online and Ready state JPOS_PS_ONLINE(2001) Power off state JPOS_PS_OFF(2002) Not Ready state JPOS_PS_OFFLINE(2003) | |
| DeviceControlDescription | R | ✓ | JavaPOS POSPrinter Device Control | |
| DeviceControlVersion | R | ✓ | 1014000 | |
| DeviceServiceDescription | R | ✓ | CITIZEN Service Object for Thermal Printers ver 1.14.*.* | |
| DeviceServiceVersion | R | ✓ | 1014*** | |
| PhysicalDeviceDescription | R | ✓ | Citizen Thermal POSPrinter | |
| PhysicalDeviceName | R | ✓ | CITIZEN CT-S310 POS Printer | |
| CapCharacterSet | R | ✓ | PTR_CCS_ASCII | |
| CapConcurrentJrnRec | R | | false | Unsupported hardware |
| CapConcurrentJrnSlp | R | | false | Unsupported hardware |
| CapConcurrentPageMode | R | | false | Unsupported hardware |
| CapConcurrentRecSlp | R | | false | Unsupported hardware |
| CapCoverSensor | R | ✓ | true | |
| CapTransaction | R | ✓ | true | |
| CapJrnPresent | R | | false | Unsupported hardware |
| CapJrn2Color | R | | false | Unsupported hardware |
| CapJrnBold | R | | false | Unsupported hardware |
| CapJrnDhigh | R | | false | Unsupported hardware |
| CapJrnDwide | R | | false | Unsupported hardware |
| CapJrnDwideDhigh | R | | false | Unsupported hardware |
| CapJrnEmptySensor | R | | false | Unsupported hardware |
| CapJrnItalic | R | | false | Unsupported hardware |
| CapJrnNearEndSensor | R | | false | Unsupported hardware |
| CapJrnUnderline | R | | false | Unsupported hardware |
| CapJrnCartridgeSensor | R | | false | Unsupported hardware |
| CapJrnColor | R | | false | Unsupported hardware |
| CapRecPresent | R | ✓ | true | |
| CapRec2Color | R | ✓ | true | Using paper printable in 2 colors |
| CapRecBarCode | R | ✓ | true | |
| CapRecBitmap | R | ✓ | true | |
| CapRecBold | R | ✓ | true | |

| Property | Attribute | Status of support by the driver (CITIZEN S310 *) | | Notes |
|-----------------------|-----------|---|--|---|
| CapRecDhigh | R | ✓ | true | |
| CapRecDwide | R | ✓ | true | |
| CapRecDwideDhigh | R | ✓ | true | |
| CapRecEmptySensor | R | ✓ | true | |
| CapRecItalic | R | | false | Unsupported hardware |
| CapRecLeft90 | R | ✓ | true | |
| CapRecNearEndSensor | R | ✓ | true | |
| CapRecPapercut | R | ✓ | true | |
| CapRecRight90 | R | ✓ | true | |
| CapRecRotate180 | R | ✓ | true | |
| CapRecRuledLine | R | | 0 | Unsupported hardware |
| CapRecStamp | R | | false | |
| CapRecUnderline | R | ✓ | true | |
| CapRecCartridgeSensor | R | ✓ | PTR_CART_OK | |
| CapRecColor | R | ✓ | PTR_COLOR_PRIMARY PTR_COLOR_CUSTOM1 | |
| CapRecMarkFeed | R | ✓ | PTR_MF_TO_CUTTER PTR_MF_TO_NEXT_TOF | |
| CapRecPageMode | R | | false | Not supported |
| CapSlpPresent | R | | false | Unsupported hardware |
| CapSlpFullslip | R | | false | Unsupported hardware |
| CapSlp2Color | R | | false | Unsupported hardware |
| CapSlpBarCode | R | | false | Unsupported hardware |
| CapSlpBitmap | R | | false | Unsupported hardware |
| CapSlpBold | R | | false | Unsupported hardware |
| CapSlpDhigh | R | | false | Unsupported hardware |
| CapSlpDwide | R | | false | Unsupported hardware |
| CapSlpDwideDhigh | R | | false | Unsupported hardware |
| CapSlpEmptySensor | R | | false | Unsupported hardware |
| CapSlpItalic | R | | false | Unsupported hardware |
| CapSlpLeft90 | R | | false | Unsupported hardware |
| CapSlpNearEndSensor | R | | false | Unsupported hardware |
| CapSlpRight90 | R | | false | Unsupported hardware |
| CapSlpRotate180 | R | | false | Unsupported hardware |
| CapSlpRuledLine | R | | 0 | Unsupported hardware |
| CapSlpUnderline | R | | false | Unsupported hardware |
| CapSlpBothSidesPrint | R | | false | Unsupported hardware |
| CapSlpCartridgeSensor | R | | false | Unsupported hardware |
| CapSlpColor | R | | false | Unsupported hardware |
| CapSlpPageMode | R | | false | Unsupported hardware |
| AsyncMode | R/W | ✓ | true / false(default) | Refer to 4.5.6 AsyncMode Property |
| CartridgeNotify | R/W | | PTR_CN_DISABLED | |
| CharacterSet | R/W | ✓ | | |

| Property | Attribute | Status of support by the driver (CITIZEN S310 *) | Notes |
|----------------------------|-----------|--|--|
| CharacterSetList | R | ✓ 255:User Defined 437:Code437 850:Code850 Multilingual 860:Code860 Portugal 863:Code863 Canada-French 865:Code865 Norway 852:Code852 EasternEurope 858:Code858 864:Code864 Arabic 874:Code874 Tai Code 18 866:Code866 Russia 857:Code857 Turkey 932:KANA 998:ASCII 999:Windows Code 1252:Windows Code | |
| CoverOpen | R | ✓ TRUE: POS printer cover is open. FALSE: POS printer cover is closed. | |
| ErrorLevel | R | ✓ PTR_EL_NONE PTR_EL_RECOVERABLE PTR_EL_FATAL | Refer to 4.5.7 ErrorLevel Property |
| ErrorStation | R | ✓ PTR_S_RECEIPT | |
| ErrorString | R | ✓ | Description on present error is retained. |
| FontTypefaceList | R | ✓ 0,1,2 | |
| FlagWhenIdle | R/W | ✓ | |
| MapMode | R/W | ✓ PTR_MM_DOTS(default) PTR_MM_TWIPS PTR_MM_ENGLISH PTR_MM_METRIC | |
| PageModeArea | R | ✓ RecLineWidth,936 | |
| PageModeDescriptor | R | ✓ PTR_PM_BITMAP PTR_PM_BARCODE PTR_PM_BM_ROTATE PTR_PM_BC_ROTATE | |
| PageModeHorizontalPosition | R/W | ✓ 0(default) | |
| PageModePrintArea | R/W | ✓ 0,0,0,0(default) | |
| PageModePrintDirection | R/W | ✓ PTR_PD_LEFT_TO_RIGHT(default) PTR_PD_BOTTOM_TO_TOP PTR_PD_RIGHT_TO_LEFT PTR_PD_TOP_TO_BOTTOM | |
| PageModeStation | R/W | ✓ PTR_S_RECEIPT | |
| PageModeVerticalPosition | R/W | ✓ 0(default) | |
| RotateSpecial | R/W | ✓ PTR_RP_NORMAL(default) PTR_RP_RIGHT90 PTR_RP_LEFT90 PTR_RP_ROTATE180 | |
| JrnLineChars | R/W | | Unsupported hardware |
| JrnLineCharsList | R | | Unsupported hardware |
| JrnLineHeight | R/W | | Unsupported hardware |
| JrnLineSpacing | R/W | | Unsupported hardware |
| JrnLineWidth | R | | Unsupported hardware |
| JrnLetterQuality | R/W | | Unsupported hardware |
| JrnEmpty | R | | Unsupported hardware |
| JrnNearEnd | R | | Unsupported hardware |
| JrnCartridgeState | R | PTR_CART_UNKNOWN | Unsupported hardware |
| JrnCurrentCartridge | R/W | | Unsupported hardware |
| RecBarCodeRotationList | R | ✓ 0, R90, L90, 180 | |
| RecBitmapRotationList | R | ✓ Raster bit image mode: 0,R90,L90,180 | |

| Property | Attribute | Status of support by the driver (CITIZEN S310 *) | | Notes |
|------------------------|-----------|---|--|--|
| | | | NV bit image mode: 0,180 | |
| RecCartridgeState | R | | TR_CART_UNKNOWN | |
| RecCurrentCartridge | R/W | ✓ | PTR_COLOR_PRIMARY, PTR_COLOR_CUSTOM1 | |
| RecEmpty | R | ✓ | | |
| RecLetterQuality | R/W | | | Not supported |
| RecLineChars | R/W | ✓ | | Refer to 4.5.9 RecLineChars/ RecLineCharsList_Property |
| RecLineCharsList | R | ✓ | 58 mm paper "30,40,45" "32,42,48" 80 mm paper "42,56,63" "48,64,72" | Refer to 4.5.9 RecLineChars/ RecLineCharsList_Property |
| RecLineHeight | R/W | ✓ | | The value is changed according to the RecLineChars property. |
| RecLineSpacing | R/W | ✓ | | Only if the value is smaller than RecLineHeight property, the value is changed in accordance with to the RecLineHeight property. |
| RecLinesToPaperCut | R | ✓ | | The value is changed according to the RecLineChars property. |
| RecLineWidth | R | ✓ | | The value is changed according to the RecLineChars property. |
| RecNearEnd | R | ✓ | | |
| RecSidewaysMaxLines | R | ✓ | | Refer to 4.5.11 RecSidewaysMaxLines_Property |
| RecSidewaysMaxChars | R | ✓ | | Refer to 4.5.10 RecSidewaysMaxChars_Property |
| SlpBarCodeRotationList | R | | | Unsupported hardware |
| SlpBitmapRotationList | R | | | Unsupported hardware |
| SlpCartridgeState | R | | PTR_CART_UNKNOWN | Unsupported hardware |
| SlpCurrentCartridge | R/W | | | Unsupported hardware |
| SlpEmpty | R | | | Unsupported hardware |
| SlpLetterQuality | R/W | | | Unsupported hardware |
| SlpLineChars | R/W | | | Unsupported hardware |
| SlpLineCharsList | R | | | Unsupported hardware |
| SlpLineHeight | R/W | | | Unsupported hardware |
| SlpLinesNearEndToEnd | R | | | Unsupported hardware |
| SlpLineSpacing | R/W | | | Unsupported hardware |
| SlpLineWidth | R | | | Unsupported hardware |
| SlpMaxLines | R | | | Unsupported hardware |
| SlpNearEnd | R | | | Unsupported hardware |
| SlpPrintSide | R | | PTR_PS_UNKNOWN | Unsupported hardware |
| SlpSidewaysMaxChars | R | | | Unsupported hardware |
| SlpSidewaysMaxLines | R | | | Unsupported hardware |

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| Property | Attribute | Status of support by the driver (CITIZEN S310II *) | | Notes |
|---------------------------|-----------|---|--|---|
| AutoDisable | R/W | | Not applicable with POSPrinter | |
| CapCompareFirmwareVersion | R | | false | Not supported |
| CapPowerReporting | R | ✓ | JPOS_PR_ADVANCED | |
| CapStatisticsReporting | R | ✓ | true | |
| CapUpdateFirmware | R | | false | Not supported |
| CapUpdateStatistics | R | | false | Not supported |
| CheckHealthText | R | ✓ | | |
| Claimed | R | ✓ | | |
| DataCount | R | | Not applicable with POSPrinter | |
| DataEventEnabled | R/W | | Not applicable with POSPrinter | |
| DeviceEnabled | R/W | ✓ | | |
| FreezeEvents | R/W | ✓ | | |
| OutputID | R | ✓ | Increment (+1) | Refer to 4.5.8 OutputID Property/ OutputCompleteEvent Event |
| PowerNotify | R/W | ✓ | | |
| PowerState | R | ✓ | | |
| State | R | ✓ | Online and Ready state JPOS_PS_ONLINE(2001) Power off state JPOS_PS_OFF(2002) Not Ready state JPOS_PS_OFFLINE(2003) | |
| DeviceControlDescription | R | ✓ | JavaPOS POSPrinter Device Control | |
| DeviceControlVersion | R | ✓ | 1014000 | |
| DeviceServiceDescription | R | ✓ | CITIZEN Service Object for Thermal Printers ver 1.14.*.* | |
| DeviceServiceVersion | R | ✓ | 1014*** | |
| PhysicalDeviceDescription | R | ✓ | Citizen Thermal POSPrinter | |
| PhysicalDeviceName | R | ✓ | CITIZEN CT-S310II POS Printer | |
| CapCharacterSet | R | ✓ | PTR_CCS_ASCII | |
| CapConcurrentJrnRec | R | | false | Unsupported hardware |
| CapConcurrentJrnSlp | R | | false | Unsupported hardware |
| CapConcurrentPageMode | R | | false | Unsupported hardware |
| CapConcurrentRecSlp | R | | false | Unsupported hardware |
| CapCoverSensor | R | ✓ | true | |
| CapTransaction | R | ✓ | true | |
| CapJrnPresent | R | | false | Unsupported hardware |
| CapJrn2Color | R | | false | Unsupported hardware |
| CapJrnBold | R | | false | Unsupported hardware |
| CapJrnDhigh | R | | false | Unsupported hardware |
| CapJrnDwide | R | | false | Unsupported hardware |
| CapJrnDwideDhigh | R | | false | Unsupported hardware |
| CapJrnEmptySensor | R | | false | Unsupported hardware |
| CapJrnItalic | R | | false | Unsupported hardware |
| CapJrnNearEndSensor | R | | false | Unsupported hardware |
| CapJrnUnderline | R | | false | Unsupported hardware |
| CapJrnCartridgeSensor | R | | false | Unsupported hardware |
| CapJrnColor | R | | false | Unsupported hardware |
| CapRecPresent | R | ✓ | true | |
| CapRec2Color | R | | false | Unsupported hardware |
| CapRecBarCode | R | ✓ | true | |
| CapRecBitmap | R | ✓ | true | |
| CapRecBold | R | ✓ | true | |

| Property | Attribute | Status of support by the driver (CITIZEN S310II *) | | Notes |
|-----------------------|-----------|---|-----------------------|---|
| CapRecDhigh | R | ✓ | true | |
| CapRecDwide | R | ✓ | true | |
| CapRecDwideDhigh | R | ✓ | true | |
| CapRecEmptySensor | R | ✓ | true | |
| CapRecItalic | R | | false | Unsupported hardware |
| CapRecLeft90 | R | ✓ | true | |
| CapRecNearEndSensor | R | | false | Unsupported hardware |
| CapRecPapercut | R | ✓ | true | |
| CapRecRight90 | R | ✓ | true | |
| CapRecRotate180 | R | ✓ | true | |
| CapRecRuledLine | R | | 0 | Unsupported hardware |
| CapRecStamp | R | | false | |
| CapRecUnderline | R | ✓ | true | |
| CapRecCartridgeSensor | R | | 0 | Unsupported hardware |
| CapRecColor | R | | PTR_COLOR_PRIMARY | Unsupported hardware |
| CapRecMarkFeed | R | | 0 | Unsupported hardware |
| CapRecPageMode | R | ✓ | true | |
| CapSlpPresent | R | | false | Unsupported hardware |
| CapSlpFullslip | R | | false | Unsupported hardware |
| CapSlp2Color | R | | false | Unsupported hardware |
| CapSlpBarCode | R | | false | Unsupported hardware |
| CapSlpBitmap | R | | false | Unsupported hardware |
| CapSlpBold | R | | false | Unsupported hardware |
| CapSlpDhigh | R | | false | Unsupported hardware |
| CapSlpDwide | R | | false | Unsupported hardware |
| CapSlpDwideDhigh | R | | false | Unsupported hardware |
| CapSlpEmptySensor | R | | false | Unsupported hardware |
| CapSlpItalic | R | | false | Unsupported hardware |
| CapSlpLeft90 | R | | false | Unsupported hardware |
| CapSlpNearEndSensor | R | | false | Unsupported hardware |
| CapSlpRight90 | R | | false | Unsupported hardware |
| CapSlpRotate180 | R | | false | Unsupported hardware |
| CapSlpRuledLine | R | | 0 | Unsupported hardware |
| CapSlpUnderline | R | | false | Unsupported hardware |
| CapSlpBothSidesPrint | R | | false | Unsupported hardware |
| CapSlpCartridgeSensor | R | | false | Unsupported hardware |
| CapSlpColor | R | | false | Unsupported hardware |
| CapSlpPageMode | R | | false | Unsupported hardware |
| AsyncMode | R/W | ✓ | true / false(default) | Refer to 4.5.6 AsyncMode Property |
| CartridgeNotify | R/W | | PTR_CN_DISABLED | |
| CharacterSet | R/W | ✓ | | |

| Property | Attribute | Status of support by the driver (CITIZEN S310II *) | Notes |
|----------------------------|-----------|---|--|
| CharacterSetList | R | ✓ 255:User Defined 437:Code437 850:Code850 Multilingual 860:Code860 Portugal 863:Code863 Canada-French 865:Code865 Norway 852:Code852 EasternEurope 858:Code858 864:Code864 Arabic 874:Code874 Tai Code 18 866:Code866 Russia 857:Code857 Turkey 932:KANA 936:Chinese 998:ASCII 999:Windows Code 1252:Windows Code | |
| CoverOpen | R | ✓ TRUE: POS printer cover is open. FALSE: POS printer cover is closed. | |
| ErrorLevel | R | ✓ PTR_EL_NONE PTR_EL_RECOVERABLE PTR_EL_FATAL | Refer to 4.5.7 ErrorLevel Property |
| ErrorStation | R | ✓ PTR_S_RECEIPT | |
| ErrorString | R | ✓ | Description on present error is retained. |
| FontTypefaceList | R | ✓ 0,1,2 | |
| FlagWhenIdle | R/W | ✓ | |
| MapMode | R/W | ✓ PTR_MM_DOTS(default) PTR_MM_TWIPS PTR_MM_ENGLISH PTR_MM_METRIC | |
| PageModeArea | R | ✓ RecLineWidth,936 | |
| PageModeDescriptor | R | ✓ PTR_PM_BITMAP PTR_PM_BARCODE PTR_PM_BM_ROTATE PTR_PM_BC_ROTATE | |
| PageModeHorizontalPosition | R/W | ✓ 0(default) | |
| PageModePrintArea | R/W | ✓ 0,0,0,0(default) | |
| PageModePrintDirection | R/W | ✓ PTR_PD_LEFT_TO_RIGHT(default) PTR_PD_BOTTOM_TO_TOP PTR_PD_RIGHT_TO_LEFT PTR_PD_TOP_TO_BOTTOM | |
| PageModeStation | R/W | ✓ PTR_S_RECEIPT | |
| PageModeVerticalPosition | R/W | ✓ 0(default) | |
| RotateSpecial | R/W | ✓ PTR_RP_NORMAL(default) PTR_RP_RIGHT90 PTR_RP_LEFT90 PTR_RP_ROTATE180 | |
| JrnLineChars | R/W | | Unsupported hardware |
| JrnLineCharsList | R | | Unsupported hardware |
| JrnLineHeight | R/W | | Unsupported hardware |
| JrnLineSpacing | R/W | | Unsupported hardware |
| JrnLineWidth | R | | Unsupported hardware |
| JrnLetterQuality | R/W | | Unsupported hardware |
| JrnEmpty | R | | Unsupported hardware |
| JrnNearEnd | R | | Unsupported hardware |
| JrnCartridgeState | R | PTR_CART_UNKNOWN | Unsupported hardware |
| JrnCurrentCartridge | R/W | | Unsupported hardware |
| RecBarCodeRotationList | R | ✓ 0, R90, L90, 180 | |

| Property | Attribute | Status of support by the driver (CITIZEN S310II *) | | Notes |
|------------------------|-----------|---|--|--|
| RecBitmapRotationList | R | ✓ | Raster bit image mode: 0,R90,L90,180 NV bit image mode: 0,180 | |
| RecCartridgeState | R | | TR_CART_UNKNOWN | |
| RecCurrentCartridge | R/W | | PTR_COLOR_PRIMARY | |
| RecEmpty | R | ✓ | | |
| RecLetterQuality | R/W | | | Not supported |
| RecLineChars | R/W | ✓ | | Refer to 4.5.9 RecLineChars/RecLineCharsList_Property |
| RecLineCharsList | R | ✓ | 58mm paper "30,40,45" "32,42,48" "35,46,52" 80mm paper "42,56,64" "48,64,72" | Refer to 4.5.9 RecLineChars/RecLineCharsList_Property |
| RecLineHeight | R/W | ✓ | | The value is changed according to the RecLineChars property. |
| RecLineSpacing | R/W | ✓ | | Only if the value is smaller than RecLineHeight property, the value is changed in accordance with to the RecLineHeight property. |
| RecLinesToPaperCut | R | ✓ | | The value is changed according to the RecLineChars property. |
| RecLineWidth | R | ✓ | | The value is changed according to the RecLineChars property. |
| RecNearEnd | R | | | Unsupported hardware |
| RecSidewaysMaxLines | R | ✓ | | Refer to 4.5.11 RecSidewaysMaxLines_Property |
| RecSidewaysMaxChars | R | ✓ | | Refer to 4.5.10 RecSidewaysMaxChars_Property |
| SlpBarcodeRotationList | R | | | Unsupported hardware |
| SlpBitmapRotationList | R | | | Unsupported hardware |
| SlpCartridgeState | R | | PTR_CART_UNKNOWN | Unsupported hardware |
| SlpCurrentCartridge | R/W | | | Unsupported hardware |
| SlpEmpty | R | | | Unsupported hardware |
| SlpLetterQuality | R/W | | | Unsupported hardware |
| SlpLineChars | R/W | | | Unsupported hardware |
| SlpLineCharsList | R | | | Unsupported hardware |
| SlpLineHeight | R/W | | | Unsupported hardware |
| SlpLinesNearEndToEnd | R | | | Unsupported hardware |
| SlpLineSpacing | R/W | | | Unsupported hardware |
| SlpLineWidth | R | | | Unsupported hardware |
| SlpMaxLines | R | | | Unsupported hardware |
| SlpNearEnd | R | | | Unsupported hardware |
| SlpPrintSide | R | | PTR_PS_UNKNOWN | Unsupported hardware |
| SlpSidewaysMaxChars | R | | | Unsupported hardware |
| SlpSidewaysMaxLines | R | | | Unsupported hardware |

CT-S601/651/801/851

| Property | Attribute | Status of support by the driver (CITIZEN S601 *, CITIZEN S651 *, CITIZEN S801 *, CITIZEN S851 *) | | Notes |
|---------------------------|-----------|--|--|---|
| AutoDisable | R/W | | Not applicable with POSPrinter | |
| CapCompareFirmwareVersion | R | | false | Not supported |
| CapPowerReporting | R | ✓ | JPOS_PR_ADVANCED | |
| CapStatisticsReporting | R | ✓ | true | |
| CapUpdateFirmware | R | | false | Not supported |
| CapUpdateStatistics | R | | false | Not supported |
| CheckHealthText | R | ✓ | | |
| Claimed | R | ✓ | | |
| DataCount | R | | Not applicable with POSPrinter | |
| DataEventEnabled | R/W | | Not applicable with POSPrinter | |
| DeviceEnabled | R/W | ✓ | | |
| FreezeEvents | R/W | ✓ | | |
| OutputID | R | ✓ | Increment (+1) | Refer to 4.5.8 OutputID Property/ OutputCompleteEvent Event |
| PowerNotify | R/W | ✓ | | |
| PowerState | R | ✓ | | |
| State | R | ✓ | Online and Ready state JPOS_PS_ONLINE(2001) Power off state JPOS_PS_OFF(2002) Not Ready state JPOS_PS_OFFLINE(2003) | |
| DeviceControlDescription | R | ✓ | JavaPOS POSPrinter Device Control | |
| DeviceControlVersion | R | ✓ | 1014000 | |
| DeviceServiceDescription | R | ✓ | CITIZEN Service Object for Thermal Printers ver 1.14.*.* | |
| DeviceServiceVersion | R | ✓ | 1014*** | |
| PhysicalDeviceDescription | R | ✓ | Citizen Thermal POSPrinter | |
| PhysicalDeviceName | R | ✓ | CITIZEN CT-S601 POS Printer CITIZEN CT-S651 POS Printer CITIZEN CT-S801 POS Printer CITIZEN CT-S851 POS Printer | |
| CapCharacterSet | R | ✓ | PTR_CCS_ASCII | |
| CapConcurrentJrnRec | R | | false | Unsupported hardware |
| CapConcurrentJrnSlp | R | | false | Unsupported hardware |
| CapConcurrentPageMode | R | | false | Unsupported hardware |
| CapConcurrentRecSlp | R | | false | Unsupported hardware |
| CapCoverSensor | R | ✓ | true | |
| CapTransaction | R | ✓ | true | |
| CapJrnPresent | R | | false | Unsupported hardware |
| CapJrn2Color | R | | false | Unsupported hardware |
| CapJrnBold | R | | false | Unsupported hardware |
| CapJrnDhigh | R | | false | Unsupported hardware |
| CapJrnDwide | R | | false | Unsupported hardware |
| CapJrnDwideDhigh | R | | false | Unsupported hardware |
| CapJrnEmptySensor | R | | false | Unsupported hardware |
| CapJrnItalic | R | | false | Unsupported hardware |
| CapJrnNearEndSensor | R | | false | Unsupported hardware |
| CapJrnUnderline | R | | false | Unsupported hardware |
| CapJrnCartridgeSensor | R | | false | Unsupported hardware |
| CapJrnColor | R | | false | Unsupported hardware |
| CapRecPresent | R | ✓ | true | |
| CapRec2Color | R | ✓ | true | Using paper printable in 2 colors |

| Property | Attribute | Status of support by the driver (CITIZEN S601 *, CITIZEN S651 *, CITIZEN S801 *, CITIZEN S851 *) | Notes |
|-----------------------|-----------|--|---|
| CapRecBarCode | R | ✓ true | |
| CapRecBitmap | R | ✓ true | |
| CapRecBold | R | ✓ true | |
| CapRecDhigh | R | ✓ true | |
| CapRecDwide | R | ✓ true | |
| CapRecDwideDhigh | R | ✓ true | |
| CapRecEmptySensor | R | ✓ true | |
| CapRecItalic | R | false | Unsupported hardware |
| CapRecLeft90 | R | ✓ true | |
| CapRecNearEndSensor | R | ✓ true | |
| CapRecPapercut | R | ✓ true | |
| CapRecRight90 | R | ✓ true | |
| CapRecRotate180 | R | ✓ true | |
| CapRecRuledLine | R | 0 | Unsupported hardware |
| CapRecStamp | R | false | |
| CapRecUnderline | R | ✓ true | |
| CapRecCartridgeSensor | R | ✓ PTR_CART_OK | |
| CapRecColor | R | ✓ PTR_COLOR_PRIMARY PTR_COLOR_CUSTOM1 | |
| CapRecMarkFeed | R | ✓ PTR_MF_TO_CUTTER PTR_MF_TO_NEXT_TOF | |
| CapRecPageMode | R | ✓ true | |
| CapSlpPresent | R | false | Unsupported hardware |
| CapSlpFullslip | R | false | Unsupported hardware |
| CapSlp2Color | R | false | Unsupported hardware |
| CapSlpBarCode | R | false | Unsupported hardware |
| CapSlpBitmap | R | false | Unsupported hardware |
| CapSlpBold | R | false | Unsupported hardware |
| CapSlpDhigh | R | false | Unsupported hardware |
| CapSlpDwide | R | false | Unsupported hardware |
| CapSlpDwideDhigh | R | false | Unsupported hardware |
| CapSlpEmptySensor | R | false | Unsupported hardware |
| CapSlpItalic | R | false | Unsupported hardware |
| CapSlpLeft90 | R | false | Unsupported hardware |
| CapSlpNearEndSensor | R | false | Unsupported hardware |
| CapSlpRight90 | R | false | Unsupported hardware |
| CapSlpRotate180 | R | false | Unsupported hardware |
| CapSlpRuledLine | R | 0 | Unsupported hardware |
| CapSlpUnderline | R | false | Unsupported hardware |
| CapSlpBothSidesPrint | R | false | Unsupported hardware |
| CapSlpCartridgeSensor | R | false | Unsupported hardware |
| CapSlpColor | R | false | Unsupported hardware |
| CapSlpPageMode | R | false | Unsupported hardware |
| AsyncMode | R/W | ✓ true / false(default) | Refer to 4.5.6 AsyncMode Property |
| CartridgeNotify | R/W | PTR_CN_DISABLED | |
| CharacterSet | R/W | ✓ | |

| Property | Attribute | Status of support by the driver (CITIZEN S601 *, CITIZEN S651 *, CITIZEN S801 *, CITIZEN S851 *) | Notes |
|----------------------------|-----------|--|--|
| CharacterSetList | R | ✓ 255:User Defined 437:Code437 850:Code850 Multilingual 860:Code860 Portugal 863:Code863 Canada-French 865:Code865 Norway 852:Code852 EasternEurope 858:Code858 864:Code864 Arabic 874:Code874 Tai Code 18 866:Code866 Russia 857:Code857 Turkey 932:KANA 936:Chinese 998:ASCII 999:Windows Code 1252:Windows Code | |
| CoverOpen | R | ✓ TRUE: POS printer cover is open. FALSE: POS printer cover is closed. | |
| ErrorLevel | R | ✓ PTR_EL_NONE PTR_EL_RECOVERABLE PTR_EL_FATAL | Refer to 4.5.7 ErrorLevel Property |
| ErrorStation | R | ✓ PTR_S_RECEIPT | |
| ErrorString | R | ✓ | Description on present error is retained. |
| FontTypefaceList | R | ✓ 0,1,2 | |
| FlagWhenIdle | R/W | ✓ | |
| MapMode | R/W | ✓ PTR_MM_DOTS(default) PTR_MM_TWIPS PTR_MM_ENGLISH PTR_MM_METRIC | |
| PageModeArea | R | ✓ RecLineWidth,936 | |
| PageModeDescriptor | R | ✓ PTR_PM_BITMAP PTR_PM_BARCODE PTR_PM_BM_ROTATE PTR_PM_BC_ROTATE | |
| PageModeHorizontalPosition | R/W | ✓ 0(default) | |
| PageModePrintArea | R/W | ✓ 0,0,0,0(default) | |
| PageModePrintDirection | R/W | ✓ PTR_PD_LEFT_TO_RIGHT(default) PTR_PD_BOTTOM_TO_TOP PTR_PD_RIGHT_TO_LEFT PTR_PD_TOP_TO_BOTTOM | |
| PageModeStation | R/W | ✓ PTR_S_RECEIPT | |
| PageModeVerticalPosition | R/W | ✓ 0(default) | |
| RotateSpecial | R/W | ✓ PTR_RP_NORMAL(default) PTR_RP_RIGHT90 PTR_RP_LEFT90 PTR_RP_ROTATE180 | |
| JrnLineChars | R/W | | Unsupported hardware |
| JrnLineCharsList | R | | Unsupported hardware |
| JrnLineHeight | R/W | | Unsupported hardware |
| JrnLineSpacing | R/W | | Unsupported hardware |
| JrnLineWidth | R | | Unsupported hardware |
| JrnLetterQuality | R/W | | Unsupported hardware |
| JrnEmpty | R | | Unsupported hardware |
| JrnNearEnd | R | | Unsupported hardware |
| JrnCartridgeState | R | PTR_CART_UNKNOWN | Unsupported hardware |
| JrnCurrentCartridge | R/W | | Unsupported hardware |

| Property | Attribute | Status of support by the driver (CITIZEN S601 *, CITIZEN S651 *, CITIZEN S801 *, CITIZEN S851 *) | | Notes |
|------------------------|-----------|--|--|--|
| RecBarCodeRotationList | R | ✓ | 0, R90, L90, 180 | |
| RecBitmapRotationList | R | ✓ | Raster bit image mode: 0,R90,L90,180 NV bit image mode: 0,180 | |
| RecCartridgeState | R | | TR_CART_UNKNOWN | |
| RecCurrentCartridge | R/W | | PTR_COLOR_PRIMARY | |
| RecEmpty | R | ✓ | | |
| RecLetterQuality | R/W | | | Not supported |
| RecLineChars | R/W | ✓ | | Refer to 4.5.9 RecLineChars/ RecLineCharsList Property |
| RecLineCharsList | R | ✓ | 58mm paper "30,40,45" "32,42,48" "35,46,42" 60mm paper "36,48,54" 80mm paper "42,56,64" "48,64,72" 83mm paper "53,71,80" | Refer to 4.5.9 RecLineChars/ RecLineCharsList Property |
| RecLineHeight | R/W | ✓ | | The value is changed according to the RecLineChars property. |
| RecLineSpacing | R/W | ✓ | | Only if the value is smaller than RecLineHeight property, the value is changed in accordance with to the RecLineHeight property. |
| RecLinesToPaperCut | R | ✓ | | The value is changed according to the RecLineChars property. |
| RecLineWidth | R | ✓ | | The value is changed according to the RecLineChars property. |
| RecNearEnd | R | ✓ | | |
| RecSidewaysMaxLines | R | ✓ | | Refer to 4.5.11 RecSidewaysMaxLines Property |
| RecSidewaysMaxChars | R | ✓ | | Refer to 4.5.10 RecSidewaysMaxChars Property |
| SlpBarCodeRotationList | R | | | Unsupported hardware |
| SlpBitmapRotationList | R | | | Unsupported hardware |
| SlpCartridgeState | R | | PTR_CART_UNKNOWN | Unsupported hardware |
| SlpCurrentCartridge | R/W | | | Unsupported hardware |
| SlpEmpty | R | | | Unsupported hardware |
| SlpLetterQuality | R/W | | | Unsupported hardware |
| SlpLineChars | R/W | | | Unsupported hardware |
| SlpLineCharsList | R | | | Unsupported hardware |
| SlpLineHeight | R/W | | | Unsupported hardware |
| SlpLinesNearEndToEnd | R | | | Unsupported hardware |
| SlpLineSpacing | R/W | | | Unsupported hardware |
| SlpLineWidth | R | | | Unsupported hardware |
| SlpMaxLines | R | | | Unsupported hardware |
| SlpNearEnd | R | | | Unsupported hardware |
| SlpPrintSide | R | | PTR_PS_UNKNOWN | Unsupported hardware |
| SlpSidewaysMaxChars | R | | | Unsupported hardware |
| SlpSidewaysMaxLines | R | | | Unsupported hardware |

CT-S601II/651II/801II/851II

| Property | Attribute | Status of support by the driver (CITIZEN S601II *, CITIZEN S651II *, CITIZEN S801II *, CITIZEN S851II *) | | Notes |
|---------------------------|-----------|--|--|---|
| AutoDisable | R/W | | Not applicable with POSPrinter | |
| CapCompareFirmwareVersion | R | | false | Not supported |
| CapPowerReporting | R | ✓ | JPOS_PR_ADVANCED | |
| CapStatisticsReporting | R | ✓ | true | |
| CapUpdateFirmware | R | | false | Not supported |
| CapUpdateStatistics | R | | false | Not supported |
| CheckHealthText | R | ✓ | | |
| Claimed | R | ✓ | | |
| DataCount | R | | Not applicable with POSPrinter | |
| DataEventEnabled | R/W | | Not applicable with POSPrinter | |
| DeviceEnabled | R/W | ✓ | | |
| FreezeEvents | R/W | ✓ | | |
| OutputID | R | ✓ | Increment (+1) | Refer to 4.5.8 OutputID Property/ OutputCompleteEvent Event |
| PowerNotify | R/W | ✓ | | |
| PowerState | R | ✓ | | |
| State | R | ✓ | Online and Ready state JPOS_PS_ONLINE(2001) Power off state JPOS_PS_OFF(2002) Not Ready state JPOS_PS_OFFLINE(2003) | |
| DeviceControlDescription | R | ✓ | JavaPOS POSPrinter Device Control | |
| DeviceControlVersion | R | ✓ | 1014000 | |
| DeviceServiceDescription | R | ✓ | CITIZEN Service Object for Thermal Printers ver 1.14.*.* | |
| DeviceServiceVersion | R | ✓ | 1014*** | |
| PhysicalDeviceDescription | R | ✓ | Citizen Thermal POSPrinter | |
| PhysicalDeviceName | R | ✓ | CITIZEN CT-S601II POS Printer CITIZEN CT-S651II POS Printer CITIZEN CT-S801II POS Printer CITIZEN CT-S851II POS Printer | |
| CapCharacterSet | R | ✓ | PTR_CCS_ASCII | |
| CapConcurrentJrnRec | R | | false | Unsupported hardware |
| CapConcurrentJrnSlp | R | | false | Unsupported hardware |
| CapConcurrentPageMode | R | | false | Unsupported hardware |
| CapConcurrentRecSlp | R | | false | Unsupported hardware |
| CapCoverSensor | R | ✓ | true | |
| CapTransaction | R | ✓ | true | |
| CapJrnPresent | R | | false | Unsupported hardware |
| CapJrn2Color | R | | false | Unsupported hardware |
| CapJrnBold | R | | false | Unsupported hardware |
| CapJrnDhigh | R | | false | Unsupported hardware |
| CapJrnDwide | R | | false | Unsupported hardware |
| CapJrnDwideDhigh | R | | false | Unsupported hardware |
| CapJrnEmptySensor | R | | false | Unsupported hardware |
| CapJrnItalic | R | | false | Unsupported hardware |
| CapJrnNearEndSensor | R | | false | Unsupported hardware |
| CapJrnUnderline | R | | false | Unsupported hardware |
| CapJrnCartridgeSensor | R | | false | Unsupported hardware |
| CapJrnColor | R | | false | Unsupported hardware |
| CapRecPresent | R | ✓ | true | |
| CapRec2Color | R | ✓ | true | Using paper printable in 2 colors |

| Property | Attribute | Status of support by the driver (CITIZEN S601II *, CITIZEN S651II *, CITIZEN S801II *, CITIZEN S851II *) | Notes |
|-----------------------|-----------|--|---|
| CapRecBarCode | R | ✓ true | |
| CapRecBitmap | R | ✓ true | |
| CapRecBold | R | ✓ true | |
| CapRecDhigh | R | ✓ true | |
| CapRecDwide | R | ✓ true | |
| CapRecDwideDhigh | R | ✓ true | |
| CapRecEmptySensor | R | ✓ true | |
| CapRecItalic | R | false | Unsupported hardware |
| CapRecLeft90 | R | ✓ true | |
| CapRecNearEndSensor | R | ✓ true | |
| CapRecPapercut | R | ✓ true | |
| CapRecRight90 | R | ✓ true | |
| CapRecRotate180 | R | ✓ true | |
| CapRecRuledLine | R | 0 | Unsupported hardware |
| CapRecStamp | R | false | |
| CapRecUnderline | R | ✓ true | |
| CapRecCartridgeSensor | R | ✓ PTR_CART_OK | |
| CapRecColor | R | ✓ PTR_COLOR_PRIMARY PTR_COLOR_CUSTOM1 | |
| CapRecMarkFeed | R | ✓ PTR_MF_TO_CUTTER PTR_MF_TO_NEXT_TOF | |
| CapRecPageMode | R | ✓ true | |
| CapSlpPresent | R | false | Unsupported hardware |
| CapSlpFullslip | R | false | Unsupported hardware |
| CapSlp2Color | R | false | Unsupported hardware |
| CapSlpBarCode | R | false | Unsupported hardware |
| CapSlpBitmap | R | false | Unsupported hardware |
| CapSlpBold | R | false | Unsupported hardware |
| CapSlpDhigh | R | false | Unsupported hardware |
| CapSlpDwide | R | false | Unsupported hardware |
| CapSlpDwideDhigh | R | false | Unsupported hardware |
| CapSlpEmptySensor | R | false | Unsupported hardware |
| CapSlpItalic | R | false | Unsupported hardware |
| CapSlpLeft90 | R | false | Unsupported hardware |
| CapSlpNearEndSensor | R | false | Unsupported hardware |
| CapSlpRight90 | R | false | Unsupported hardware |
| CapSlpRotate180 | R | false | Unsupported hardware |
| CapSlpRuledLine | R | 0 | Unsupported hardware |
| CapSlpUnderline | R | false | Unsupported hardware |
| CapSlpBothSidesPrint | R | false | Unsupported hardware |
| CapSlpCartridgeSensor | R | false | Unsupported hardware |
| CapSlpColor | R | false | Unsupported hardware |
| CapSlpPageMode | R | false | Unsupported hardware |
| AsyncMode | R/W | ✓ true / false(default) | Refer to 4.5.6 AsyncMode Property |
| CartridgeNotify | R/W | PTR_CN_DISABLED | |
| CharacterSet | R/W | ✓ | |

| Property | Attribute | Status of support by the driver (CITIZEN S601II *, CITIZEN S651II *, CITIZEN S801II *, CITIZEN S851II *) | Notes |
|----------------------------|-----------|--|--|
| CharacterSetList | R | ✓ 255:User Defined 437:Code437 850:Code850 Multilingual 860:Code860 Portugal 863:Code863 Canada-French 865:Code865 Norway 852:Code852 EasternEurope 858:Code858 864:Code864 Arabic 874:Code874 Tai Code 18 866:Code866 Russia 857:Code857 Turkey 932:KANA 936:Chinese 998:ASCII 999:Windows Code 1252:Windows Code | |
| CoverOpen | R | ✓ TRUE: POS printer cover is open. FALSE: POS printer cover is closed. | |
| ErrorLevel | R | ✓ PTR_EL_NONE PTR_EL_RECOVERABLE PTR_EL_FATAL | Refer to 4.5.7 ErrorLevel Property |
| ErrorStation | R | ✓ PTR_S_RECEIPT | |
| ErrorString | R | ✓ | Description on present error is retained. |
| FontTypefaceList | R | ✓ 0,1,2 | |
| FlagWhenIdle | R/W | ✓ | |
| MapMode | R/W | ✓ PTR_MM_DOTS(default) PTR_MM_TWIPS PTR_MM_ENGLISH PTR_MM_METRIC | |
| PageModeArea | R | ✓ RecLineWidth,936 | |
| PageModeDescriptor | R | ✓ PTR_PM_BITMAP PTR_PM_BARCODE PTR_PM_BM_ROTATE PTR_PM_BC_ROTATE | |
| PageModeHorizontalPosition | R/W | ✓ 0(default) | |
| PageModePrintArea | R/W | ✓ 0,0,0,0(default) | |
| PageModePrintDirection | R/W | ✓ PTR_PD_LEFT_TO_RIGHT(default) PTR_PD_BOTTOM_TO_TOP PTR_PD_RIGHT_TO_LEFT PTR_PD_TOP_TO_BOTTOM | |
| PageModeStation | R/W | ✓ PTR_S_RECEIPT | |
| PageModeVerticalPosition | R/W | ✓ 0(default) | |
| RotateSpecial | R/W | ✓ PTR_RP_NORMAL(default) PTR_RP_RIGHT90 PTR_RP_LEFT90 PTR_RP_ROTATE180 | |
| JrnLineChars | R/W | | Unsupported hardware |
| JrnLineCharsList | R | | Unsupported hardware |
| JrnLineHeight | R/W | | Unsupported hardware |
| JrnLineSpacing | R/W | | Unsupported hardware |
| JrnLineWidth | R | | Unsupported hardware |
| JrnLetterQuality | R/W | | Unsupported hardware |
| JrnEmpty | R | | Unsupported hardware |
| JrnNearEnd | R | | Unsupported hardware |
| JrnCartridgeState | R | PTR_CART_UNKNOWN | Unsupported hardware |
| JrnCurrentCartridge | R/W | | Unsupported hardware |

| Property | Attribute | Status of support by the driver (CITIZEN S601II *, CITIZEN S651II *, CITIZEN S801II *, CITIZEN S851II *) | | Notes |
|------------------------|-----------|--|--|--|
| RecBarCodeRotationList | R | ✓ | 0, R90, L90, 180 | |
| RecBitmapRotationList | R | ✓ | Raster bit image mode: 0,R90,L90,180 NV bit image mode: 0,180 | |
| RecCartridgeState | R | | TR_CART_UNKNOWN | |
| RecCurrentCartridge | R/W | | PTR_COLOR_PRIMARY | |
| RecEmpty | R | ✓ | | |
| RecLetterQuality | R/W | | | Not supported |
| RecLineChars | R/W | ✓ | | Refer to 4.5.9 RecLineChars/ RecLineCharsList Property |
| RecLineCharsList | R | ✓ | 58mm paper "30,40,45" "32,42,48" "35,46,42" 60mm paper "36,48,54" 80mm paper "42,56,64" "48,64,72" 83mm paper "53,71,80" | Refer to 4.5.9 RecLineChars/ RecLineCharsList Property |
| RecLineHeight | R/W | ✓ | | The value is changed according to the RecLineChars property. |
| RecLineSpacing | R/W | ✓ | | Only if the value is smaller than RecLineHeight property, the value is changed in accordance with to the RecLineHeight property. |
| RecLinesToPaperCut | R | ✓ | | The value is changed according to the RecLineChars property. |
| RecLineWidth | R | ✓ | | The value is changed according to the RecLineChars property. |
| RecNearEnd | R | ✓ | | |
| RecSidewaysMaxLines | R | ✓ | | Refer to 4.5.11 RecSidewaysMaxLines Property |
| RecSidewaysMaxChars | R | ✓ | | Refer to 4.5.10 RecSidewaysMaxChars Property |
| SlpBarCodeRotationList | R | | | Unsupported hardware |
| SlpBitmapRotationList | R | | | Unsupported hardware |
| SlpCartridgeState | R | | PTR_CART_UNKNOWN | Unsupported hardware |
| SlpCurrentCartridge | R/W | | | Unsupported hardware |
| SlpEmpty | R | | | Unsupported hardware |
| SlpLetterQuality | R/W | | | Unsupported hardware |
| SlpLineChars | R/W | | | Unsupported hardware |
| SlpLineCharsList | R | | | Unsupported hardware |
| SlpLineHeight | R/W | | | Unsupported hardware |
| SlpLinesNearEndToEnd | R | | | Unsupported hardware |
| SlpLineSpacing | R/W | | | Unsupported hardware |
| SlpLineWidth | R | | | Unsupported hardware |
| SlpMaxLines | R | | | Unsupported hardware |
| SlpNearEnd | R | | | Unsupported hardware |
| SlpPrintSide | R | | PTR_PS_UNKNOWN | Unsupported hardware |
| SlpSidewaysMaxChars | R | | | Unsupported hardware |
| SlpSidewaysMaxLines | R | | | Unsupported hardware |

CT-S801III/851III

| Property | Attribute | Status of support by the driver (CITIZEN S801III *, CITIZEN S851III *) | Notes |
|---------------------------|-----------|--|---|
| AutoDisable | R/W | Not applicable with POSPrinter | |
| CapCompareFirmwareVersion | R | false | Not supported |
| CapPowerReporting | R | ✓ JPOS_PR_ADVANCED | |
| CapStatisticsReporting | R | ✓ true | |
| CapUpdateFirmware | R | false | Not supported |
| CapUpdateStatistics | R | false | Not supported |
| CheckHealthText | R | ✓ | |
| Claimed | R | ✓ | |
| DataCount | R | Not applicable with POSPrinter | |
| DataEventEnabled | R/W | Not applicable with POSPrinter | |
| DeviceEnabled | R/W | ✓ | |
| FreezeEvents | R/W | ✓ | |
| OutputID | R | ✓ Increment (+1) | Refer to 4.5.8 OutputID Property/ OutputCompleteEvent Event |
| PowerNotify | R/W | ✓ | |
| PowerState | R | ✓ | |
| State | R | ✓ Online and Ready state JPOS_PS_ONLINE(2001) Power off state JPOS_PS_OFF(2002) Not Ready state JPOS_PS_OFFLINE(2003) | |
| DeviceControlDescription | R | ✓ JavaPOS POSPrinter Device Control | |
| DeviceControlVersion | R | ✓ 1014000 | |
| DeviceServiceDescription | R | ✓ CITIZEN Service Object for Thermal Printers ver 1.14.*.* | |
| DeviceServiceVersion | R | ✓ 1014*** | |
| PhysicalDeviceDescription | R | ✓ Citizen Thermal POSPrinter | |
| PhysicalDeviceName | R | ✓ CITIZEN CT-S801III POS Printer CITIZEN CT-S851III POS Printer | |
| CapCharacterSet | R | ✓ PTR_CCS_ASCII | |
| CapConcurrentJrnRec | R | false | Unsupported hardware |
| CapConcurrentJrnSlp | R | false | Unsupported hardware |
| CapConcurrentPageMode | R | false | Unsupported hardware |
| CapConcurrentRecSlp | R | false | Unsupported hardware |
| CapCoverSensor | R | ✓ true | |
| CapTransaction | R | ✓ true | |
| CapJrnPresent | R | false | Unsupported hardware |
| CapJrn2Color | R | false | Unsupported hardware |
| CapJrnBold | R | false | Unsupported hardware |
| CapJrnDhigh | R | false | Unsupported hardware |
| CapJrnDwide | R | false | Unsupported hardware |
| CapJrnDwideDhigh | R | false | Unsupported hardware |
| CapJrnEmptySensor | R | false | Unsupported hardware |
| CapJrnItalic | R | false | Unsupported hardware |
| CapJrnNearEndSensor | R | false | Unsupported hardware |
| CapJrnUnderline | R | false | Unsupported hardware |
| CapJrnCartridgeSensor | R | false | Unsupported hardware |
| CapJrnColor | R | false | Unsupported hardware |
| CapRecPresent | R | ✓ true | |
| CapRec2Color | R | ✓ true | Using paper printable in 2 colors |
| CapRecBarCode | R | ✓ true | |
| CapRecBitmap | R | ✓ true | |
| CapRecBold | R | ✓ true | |

| Property | Attribute | Status of support by the driver (CITIZEN S801III *, CITIZEN S851III *) | | Notes |
|-----------------------|-----------|---|--|---|
| CapRecDhigh | R | ✓ | true | |
| CapRecDwide | R | ✓ | true | |
| CapRecDwideDhigh | R | ✓ | true | |
| CapRecEmptySensor | R | ✓ | true | |
| CapRecItalic | R | | false | Unsupported hardware |
| CapRecLeft90 | R | ✓ | true | |
| CapRecNearEndSensor | R | ✓ | true | |
| CapRecPapercut | R | ✓ | true | |
| CapRecRight90 | R | ✓ | true | |
| CapRecRotate180 | R | ✓ | true | |
| CapRecRuledLine | R | | 0 | Unsupported hardware |
| CapRecStamp | R | | false | |
| CapRecUnderline | R | ✓ | true | |
| CapRecCartridgeSensor | R | ✓ | PTR_CART_OK | |
| CapRecColor | R | ✓ | PTR_COLOR_PRIMARY PTR_COLOR_CUSTOM1 | |
| CapRecMarkFeed | R | ✓ | PTR_MF_TO_CUTTER PTR_MF_TO_NEXT_TOF | |
| CapRecPageMode | R | ✓ | true | |
| CapSlpPresent | R | | false | Unsupported hardware |
| CapSlpFullslip | R | | false | Unsupported hardware |
| CapSlp2Color | R | | false | Unsupported hardware |
| CapSlpBarCode | R | | false | Unsupported hardware |
| CapSlpBitmap | R | | false | Unsupported hardware |
| CapSlpBold | R | | false | Unsupported hardware |
| CapSlpDhigh | R | | false | Unsupported hardware |
| CapSlpDwide | R | | false | Unsupported hardware |
| CapSlpDwideDhigh | R | | false | Unsupported hardware |
| CapSlpEmptySensor | R | | false | Unsupported hardware |
| CapSlpItalic | R | | false | Unsupported hardware |
| CapSlpLeft90 | R | | false | Unsupported hardware |
| CapSlpNearEndSensor | R | | false | Unsupported hardware |
| CapSlpRight90 | R | | false | Unsupported hardware |
| CapSlpRotate180 | R | | false | Unsupported hardware |
| CapSlpRuledLine | R | | 0 | Unsupported hardware |
| CapSlpUnderline | R | | false | Unsupported hardware |
| CapSlpBothSidesPrint | R | | false | Unsupported hardware |
| CapSlpCartridgeSensor | R | | false | Unsupported hardware |
| CapSlpColor | R | | false | Unsupported hardware |
| CapSlpPageMode | R | | false | Unsupported hardware |
| AsyncMode | R/W | ✓ | true / false(default) | Refer to 4.5.6 AsyncMode Property |
| CartridgeNotify | R/W | | PTR_CN_DISABLED | |
| CharacterSet | R/W | ✓ | | |

| Property | Attribute | Status of support by the driver (CITIZEN S801III *, CITIZEN S851III *) | Notes |
|----------------------------|-----------|--|--|
| CharacterSetList | R | ✓ 255:User Defined 437:Code437 850:Code850 Multilingual 860:Code860 Portugal 863:Code863 Canada-French 865:Code865 Norway 852:Code852 EasternEurope 858:Code858 864:Code864 Arabic 874:Code874 Tai Code 18 866:Code866 Russia 857:Code857 Turkey 932:KANA 936:Chinese 998:ASCII 999:Windows Code 1252:Windows Code 1258: Code1258 Vietnamese 65001: UTF-8 | |
| CoverOpen | R | ✓ TRUE: POS printer cover is open. FALSE: POS printer cover is closed. | |
| ErrorLevel | R | ✓ PTR_EL_NONE PTR_EL_RECOVERABLE PTR_EL_FATAL | Refer to 4.5.7 ErrorLevel Property |
| ErrorStation | R | ✓ PTR_S_RECEIPT | |
| ErrorString | R | ✓ | Description on present error is retained. |
| FontTypefaceList | R | ✓ 0,1,2 | |
| FlagWhenIdle | R/W | ✓ | |
| MapMode | R/W | ✓ PTR_MM_DOTS(default) PTR_MM_TWIPS PTR_MM_ENGLISH PTR_MM_METRIC | |
| PageModeArea | R | ✓ RecLineWidth,936 | |
| PageModeDescriptor | R | ✓ PTR_PM_BITMAP PTR_PM_BARCODE PTR_PM_BM_ROTATE PTR_PM_BC_ROTATE | |
| PageModeHorizontalPosition | R/W | ✓ 0(default) | |
| PageModePrintArea | R/W | ✓ 0,0,0,0(default) | |
| PageModePrintDirection | R/W | ✓ PTR_PD_LEFT_TO_RIGHT(default) PTR_PD_BOTTOM_TO_TOP PTR_PD_RIGHT_TO_LEFT PTR_PD_TOP_TO_BOTTOM | |
| PageModeStation | R/W | ✓ PTR_S_RECEIPT | |
| PageModeVerticalPosition | R/W | ✓ 0(default) | |
| RotateSpecial | R/W | ✓ PTR_RP_NORMAL(default) PTR_RP_RIGHT90 PTR_RP_LEFT90 PTR_RP_ROTATE180 | |
| JrnLineChars | R/W | | Unsupported hardware |
| JrnLineCharsList | R | | Unsupported hardware |
| JrnLineHeight | R/W | | Unsupported hardware |
| JrnLineSpacing | R/W | | Unsupported hardware |
| JrnLineWidth | R | | Unsupported hardware |
| JrnLetterQuality | R/W | | Unsupported hardware |
| JrnEmpty | R | | Unsupported hardware |
| JrnNearEnd | R | | Unsupported hardware |
| JrnCartridgeState | R | PTR_CART_UNKNOWN | Unsupported hardware |

| Property | Attribute | Status of support by the driver (CITIZEN S801III *, CITIZEN S851III *) | | Notes |
|------------------------|-----------|---|--|--|
| JrnCurrentCartridge | R/W | | | Unsupported hardware |
| RecBarCodeRotationList | R | ✓ | 0, R90, L90, 180 | |
| RecBitmapRotationList | R | ✓ | Raster bit image mode: 0,R90,L90,180 NV bit image mode: 0,180 | |
| RecCartridgeState | R | | TR_CART_UNKNOWN | |
| RecCurrentCartridge | R/W | | PTR_COLOR_PRIMARY | |
| RecEmpty | R | ✓ | | |
| RecLetterQuality | R/W | | | Not supported |
| RecLineChars | R/W | ✓ | | Refer to 4.5.9 RecLineChars/ RecLineCharsList Property |
| RecLineCharsList | R | ✓ | 58mm paper "30,40,45" "32,42,48" "35,46,42" 60mm paper "36,48,54" 80mm paper "42,56,64" "48,64,72" 83mm paper "53,71,80" | Refer to 4.5.9 RecLineChars/ RecLineCharsList Property |
| RecLineHeight | R/W | ✓ | | The value is changed according to the RecLineChars property. |
| RecLineSpacing | R/W | ✓ | | Only if the value is smaller than RecLineHeight property, the value is changed in accordance with to the RecLineHeight property. |
| RecLinesToPaperCut | R | ✓ | | The value is changed according to the RecLineChars property. |
| RecLineWidth | R | ✓ | | The value is changed according to the RecLineChars property. |
| RecNearEnd | R | ✓ | | |
| RecSidewaysMaxLines | R | ✓ | | Refer to 4.5.11 RecSidewaysMaxLines Property |
| RecSidewaysMaxChars | R | ✓ | | Refer to 4.5.10 RecSidewaysMaxChars Property |
| SlpBarCodeRotationList | R | | | Unsupported hardware |
| SlpBitmapRotationList | R | | | Unsupported hardware |
| SlpCartridgeState | R | | PTR_CART_UNKNOWN | Unsupported hardware |
| SlpCurrentCartridge | R/W | | | Unsupported hardware |
| SlpEmpty | R | | | Unsupported hardware |
| SlpLetterQuality | R/W | | | Unsupported hardware |
| SlpLineChars | R/W | | | Unsupported hardware |
| SlpLineCharsList | R | | | Unsupported hardware |
| SlpLineHeight | R/W | | | Unsupported hardware |
| SlpLinesNearEndToEnd | R | | | Unsupported hardware |
| SlpLineSpacing | R/W | | | Unsupported hardware |
| SlpLineWidth | R | | | Unsupported hardware |
| SlpMaxLines | R | | | Unsupported hardware |
| SlpNearEnd | R | | | Unsupported hardware |
| SlpPrintSide | R | | PTR_PS_UNKNOWN | Unsupported hardware |
| SlpSidewaysMaxChars | R | | | Unsupported hardware |
| SlpSidewaysMaxLines | R | | | Unsupported hardware |

CT-S751

| Property | Attribute | Status of support by the driver (CITIZEN S751 *) | | Notes |
|---------------------------|-----------|---|--|---|
| AutoDisable | R/W | | Not applicable with POSPrinter | |
| CapCompareFirmwareVersion | R | | False | Not supported |
| CapPowerReporting | R | ✓ | JPOS_PR_ADVANCED | |
| CapStatisticsReporting | R | ✓ | True | |
| CapUpdateFirmware | R | | False | Not supported |
| CapUpdateStatistics | R | | False | Not supported |
| CheckHealthText | R | ✓ | | |
| Claimed | R | ✓ | | |
| DataCount | R | | Not applicable with POSPrinter | |
| DataEventEnabled | R/W | | Not applicable with POSPrinter | |
| DeviceEnabled | R/W | ✓ | | |
| FreezeEvents | R/W | ✓ | | |
| OutputID | R | ✓ | Increment (+1) | Refer to 4.5.8 OutputID Property/ OutputCompleteEvent Event |
| PowerNotify | R/W | ✓ | | |
| PowerState | R | ✓ | | |
| State | R | ✓ | Online and Ready state JPOS_PS_ONLINE(2001) Power off state JPOS_PS_OFF(2002) Not Ready state JPOS_PS_OFFLINE(2003) | |
| DeviceControlDescription | R | ✓ | JavaPOS POSPrinter Device Control | |
| DeviceControlVersion | R | ✓ | 1014000 | |
| DeviceServiceDescription | R | ✓ | CITIZEN Service Object for Thermal Printers ver 1.14.*.* | |
| DeviceServiceVersion | R | ✓ | 1014*** | |
| PhysicalDeviceDescription | R | ✓ | Citizen Thermal POSPrinter | |
| PhysicalDeviceName | R | ✓ | CITIZEN CT-S751 POS Printer | |
| CapCharacterSet | R | ✓ | PTR_CCS_ASCII | |
| CapConcurrentJrnRec | R | | false | Unsupported hardware |
| CapConcurrentJrnSlp | R | | false | Unsupported hardware |
| CapConcurrentPageMode | R | | false | Unsupported hardware |
| CapConcurrentRecSlp | R | | false | Unsupported hardware |
| CapCoverSensor | R | ✓ | true | |
| CapTransaction | R | ✓ | true | |
| CapJrnPresent | R | | false | Unsupported hardware |
| CapJrn2Color | R | | false | Unsupported hardware |
| CapJrnBold | R | | false | Unsupported hardware |
| CapJrnDhigh | R | | false | Unsupported hardware |
| CapJrnDwide | R | | false | Unsupported hardware |
| CapJrnDwideDhigh | R | | false | Unsupported hardware |
| CapJrnEmptySensor | R | | false | Unsupported hardware |
| CapJrnItalic | R | | false | Unsupported hardware |
| CapJrnNearEndSensor | R | | false | Unsupported hardware |
| CapJrnUnderline | R | | false | Unsupported hardware |
| CapJrnCartridgeSensor | R | | false | Unsupported hardware |
| CapJrnColor | R | | false | Unsupported hardware |
| CapRecPresent | R | ✓ | true | |
| CapRec2Color | R | | false | Unsupported hardware |
| CapRecBarCode | R | ✓ | true | |
| CapRecBitmap | R | ✓ | true | |
| CapRecBold | R | ✓ | true | |

| Property | Attribute | Status of support by the driver (CITIZEN S751 *) | | Notes |
|-----------------------|-----------|---|-----------------------|---|
| CapRecDhigh | R | ✓ | true | |
| CapRecDwide | R | ✓ | true | |
| CapRecDwideDhigh | R | ✓ | true | |
| CapRecEmptySensor | R | ✓ | true | |
| CapRecItalic | R | | false | Unsupported hardware |
| CapRecLeft90 | R | ✓ | true | |
| CapRecNearEndSensor | R | | false | Unsupported hardware |
| CapRecPapercut | R | ✓ | true | |
| CapRecRight90 | R | ✓ | true | |
| CapRecRotate180 | R | ✓ | true | |
| CapRecRuledLine | R | | 0 | Unsupported hardware |
| CapRecStamp | R | | false | |
| CapRecUnderline | R | ✓ | true | |
| CapRecCartridgeSensor | R | | 0 | Unsupported hardware |
| CapRecColor | R | | PTR_COLOR_PRIMARY | Unsupported hardware |
| CapRecMarkFeed | R | | 0 | Unsupported hardware |
| CapRecPageMode | R | ✓ | true | |
| CapSlpPresent | R | | false | Unsupported hardware |
| CapSlpFullslip | R | | false | Unsupported hardware |
| CapSlp2Color | R | | false | Unsupported hardware |
| CapSlpBarCode | R | | false | Unsupported hardware |
| CapSlpBitmap | R | | false | Unsupported hardware |
| CapSlpBold | R | | false | Unsupported hardware |
| CapSlpDhigh | R | | false | Unsupported hardware |
| CapSlpDwide | R | | false | Unsupported hardware |
| CapSlpDwideDhigh | R | | false | Unsupported hardware |
| CapSlpEmptySensor | R | | false | Unsupported hardware |
| CapSlpItalic | R | | false | Unsupported hardware |
| CapSlpLeft90 | R | | false | Unsupported hardware |
| CapSlpNearEndSensor | R | | false | Unsupported hardware |
| CapSlpRight90 | R | | false | Unsupported hardware |
| CapSlpRotate180 | R | | false | Unsupported hardware |
| CapSlpRuledLine | R | | 0 | Unsupported hardware |
| CapSlpUnderline | R | | false | Unsupported hardware |
| CapSlpBothSidesPrint | R | | false | Unsupported hardware |
| CapSlpCartridgeSensor | R | | false | Unsupported hardware |
| CapSlpColor | R | | false | Unsupported hardware |
| CapSlpPageMode | R | | false | Unsupported hardware |
| AsyncMode | R/W | ✓ | true / false(default) | Refer to 4.5.6 AsyncMode Property |
| CartridgeNotify | R/W | | PTR_CN_DISABLED | |
| CharacterSet | R/W | ✓ | | |

| Property | Attribute | Status of support by the driver (CITIZEN S751 *) | Notes |
|----------------------------|-----------|--|--|
| CharacterSetList | R | ✓ 255:User Defined 437:Code437 850:Code850 Multilingual 860:Code860 Portugal 863:Code863 Canada-French 865:Code865 Norway 852:Code852 EasternEurope 858:Code858 864:Code864 Arabic 874:Code874 Tai Code 18 866:Code866 Russia 857:Code857 Turkey 932:KANA 936:Chinese 998:ASCII 999:Windows Code 1252:Windows Code 1258: Code1258 Vietnamese 65001: UTF-8 | |
| CoverOpen | R | ✓ TRUE: POS printer cover is open. FALSE: POS printer cover is closed. | |
| ErrorLevel | R | ✓ PTR_EL_NONE PTR_EL_RECOVERABLE PTR_EL_FATAL | Refer to 4.5.7 ErrorLevel Property |
| ErrorStation | R | ✓ PTR_S_RECEIPT | |
| ErrorString | R | ✓ | Description on present error is retained. |
| FontTypefaceList | R | ✓ 0,1,2 | |
| FlagWhenIdle | R/W | ✓ | |
| MapMode | R/W | ✓ PTR_MM_DOTS(default) PTR_MM_TWIPS PTR_MM_ENGLISH PTR_MM_METRIC | |
| PageModeArea | R | ✓ RecLineWidth,936 | |
| PageModeDescriptor | R | ✓ PTR_PM_BITMAP PTR_PM_BARCODE PTR_PM_BM_ROTATE PTR_PM_BC_ROTATE | |
| PageModeHorizontalPosition | R/W | ✓ 0(default) | |
| PageModePrintArea | R/W | ✓ 0,0,0,0(default) | |
| PageModePrintDirection | R/W | ✓ PTR_PD_LEFT_TO_RIGHT(default) PTR_PD_BOTTOM_TO_TOP PTR_PD_RIGHT_TO_LEFT PTR_PD_TOP_TO_BOTTOM | |
| PageModeStation | R/W | ✓ PTR_S_RECEIPT | |
| PageModeVerticalPosition | R/W | ✓ 0(default) | |
| RotateSpecial | R/W | ✓ PTR_RP_NORMAL(default) PTR_RP_RIGHT90 PTR_RP_LEFT90 PTR_RP_ROTATE180 | |
| JrnLineChars | R/W | | Unsupported hardware |
| JrnLineCharsList | R | | Unsupported hardware |
| JrnLineHeight | R/W | | Unsupported hardware |
| JrnLineSpacing | R/W | | Unsupported hardware |
| JrnLineWidth | R | | Unsupported hardware |
| JrnLetterQuality | R/W | | Unsupported hardware |
| JrnEmpty | R | | Unsupported hardware |
| JrnNearEnd | R | | Unsupported hardware |
| JrnCartridgeState | R | PTR_CART_UNKNOWN | Unsupported hardware |

| Property | Attribute | Status of support by the driver (CITIZEN S751 *) | | Notes |
|------------------------|-----------|---|--|--|
| JrnCurrentCartridge | R/W | | | Unsupported hardware |
| RecBarCodeRotationList | R | ✓ | 0, R90, L90, 180 | |
| RecBitmapRotationList | R | ✓ | Raster bit image mode: 0,R90,L90,180 NV bit image mode: 0,180 | |
| RecCartridgeState | R | | TR_CART_UNKNOWN | |
| RecCurrentCartridge | R/W | | PTR_COLOR_PRIMARY | |
| RecEmpty | R | ✓ | | |
| RecLetterQuality | R/W | | | Not supported |
| RecLineChars | R/W | ✓ | | Refer to 4.5.9 RecLineChars/RecLineCharsList Property |
| RecLineCharsList | R | ✓ | 58mm paper "30,40,45" "32,42,48" "35,46,52" 80mm paper "42,56,64" "48,64,72" | Refer to 4.5.9 RecLineChars/RecLineCharsList Property |
| RecLineHeight | R/W | ✓ | | The value is changed according to the RecLineChars property. |
| RecLineSpacing | R/W | ✓ | | Only if the value is smaller than RecLineHeight property, the value is changed in accordance with to the RecLineHeight property. |
| RecLinesToPaperCut | R | ✓ | | The value is changed according to the RecLineChars property. |
| RecLineWidth | R | ✓ | | The value is changed according to the RecLineChars property. |
| RecNearEnd | R | | | Unsupported hardware |
| RecSidewaysMaxLines | R | ✓ | | Refer to 4.5.11 RecSidewaysMaxLines Property |
| RecSidewaysMaxChars | R | ✓ | | Refer to 4.5.10 RecSidewaysMaxChars Property |
| SlpBarCodeRotationList | R | | | Unsupported hardware |
| SlpBitmapRotationList | R | | | Unsupported hardware |
| SlpCartridgeState | R | | PTR_CART_UNKNOWN | Unsupported hardware |
| SlpCurrentCartridge | R/W | | | Unsupported hardware |
| SlpEmpty | R | | | Unsupported hardware |
| SlpLetterQuality | R/W | | | Unsupported hardware |
| SlpLineChars | R/W | | | Unsupported hardware |
| SlpLineCharsList | R | | | Unsupported hardware |
| SlpLineHeight | R/W | | | Unsupported hardware |
| SlpLinesNearEndToEnd | R | | | Unsupported hardware |
| SlpLineSpacing | R/W | | | Unsupported hardware |
| SlpLineWidth | R | | | Unsupported hardware |
| SlpMaxLines | R | | | Unsupported hardware |
| SlpNearEnd | R | | | Unsupported hardware |
| SlpPrintSide | R | | PTR_PS_UNKNOWN | Unsupported hardware |
| SlpSidewaysMaxChars | R | | | Unsupported hardware |
| SlpSidewaysMaxLines | R | | | Unsupported hardware |

CT-S2000

| Property | Attribute | Status of support by the driver (CITIZEN S2000 *) | | Notes |
|---------------------------|-----------|--|--|---|
| AutoDisable | R/W | | Not applicable with POSPrinter | |
| CapCompareFirmwareVersion | R | | false | Not supported |
| CapPowerReporting | R | ✓ | JPOS_PR_ADVANCED | |
| CapStatisticsReporting | R | ✓ | true | |
| CapUpdateFirmware | R | | false | Not supported |
| CapUpdateStatistics | R | | false | Not supported |
| CheckHealthText | R | ✓ | | |
| Claimed | R | ✓ | | |
| DataCount | R | | Not applicable with POSPrinter | |
| DataEventEnabled | R/W | | Not applicable with POSPrinter | |
| DeviceEnabled | R/W | ✓ | | |
| FreezeEvents | R/W | ✓ | | |
| OutputID | R | ✓ | Increment (+1) | Refer to 4.5.8 OutputID Property/ OutputCompleteEvent Event |
| PowerNotify | R/W | ✓ | | |
| PowerState | R | ✓ | | |
| State | R | ✓ | Online and Ready state JPOS_PS_ONLINE(2001) Power off state JPOS_PS_OFF(2002) Not Ready state JPOS_PS_OFFLINE(2003) | |
| DeviceControlDescription | R | ✓ | JavaPOS POSPrinter Device Control | |
| DeviceControlVersion | R | ✓ | 1014000 | |
| DeviceServiceDescription | R | ✓ | CITIZEN Service Object for Thermal Printers ver 1.14.*.* | |
| DeviceServiceVersion | R | ✓ | 1014*** | |
| PhysicalDeviceDescription | R | ✓ | Citizen Thermal POSPrinter | |
| PhysicalDeviceName | R | ✓ | CITIZEN CT-S2000 POS Printer | |
| CapCharacterSet | R | ✓ | PTR_CCS_ASCII | |
| CapConcurrentJrnRec | R | | false | Unsupported hardware |
| CapConcurrentJrnSlp | R | | false | Unsupported hardware |
| CapConcurrentPageMode | R | | false | Unsupported hardware |
| CapConcurrentRecSlp | R | | false | Unsupported hardware |
| CapCoverSensor | R | ✓ | true | |
| CapTransaction | R | ✓ | true | |
| CapJrnPresent | R | | false | Unsupported hardware |
| CapJrn2Color | R | | false | Unsupported hardware |
| CapJrnBold | R | | false | Unsupported hardware |
| CapJrnDhigh | R | | false | Unsupported hardware |
| CapJrnDwide | R | | false | Unsupported hardware |
| CapJrnDwideDhigh | R | | false | Unsupported hardware |
| CapJrnEmptySensor | R | | false | Unsupported hardware |
| CapJrnItalic | R | | false | Unsupported hardware |
| CapJrnNearEndSensor | R | | false | Unsupported hardware |
| CapJrnUnderline | R | | false | Unsupported hardware |
| CapJrnCartridgeSensor | R | | false | Unsupported hardware |
| CapJrnColor | R | | false | Unsupported hardware |
| CapRecPresent | R | ✓ | true | |
| CapRec2Color | R | ✓ | true | Using paper printable in 2 colors |
| CapRecBarCode | R | ✓ | true | |
| CapRecBitmap | R | ✓ | true | |
| CapRecBold | R | ✓ | true | |

| Property | Attribute | Status of support by the driver (CITIZEN S2000 *) | | Notes |
|-----------------------|-----------|--|--|---|
| CapRecDhigh | R | ✓ | true | |
| CapRecDwide | R | ✓ | true | |
| CapRecDwideDhigh | R | ✓ | true | |
| CapRecEmptySensor | R | ✓ | true | |
| CapRecItalic | R | | false | Unsupported hardware |
| CapRecLeft90 | R | ✓ | true | |
| CapRecNearEndSensor | R | ✓ | true | |
| CapRecPapercut | R | ✓ | true | |
| CapRecRight90 | R | ✓ | true | |
| CapRecRotate180 | R | ✓ | true | |
| CapRecRuledLine | R | | 0 | Unsupported hardware |
| CapRecStamp | R | | false | |
| CapRecUnderline | R | ✓ | true | |
| CapRecCartridgeSensor | R | ✓ | PTR_CART_OK | |
| CapRecColor | R | ✓ | PTR_COLOR_PRIMARY PTR_COLOR_CUSTOM1 | |
| CapRecMarkFeed | R | ✓ | PTR_MF_TO_CUTTER PTR_MF_TO_NEXT_TOF | |
| CapRecPageMode | R | | false | Not supported |
| CapSlpPresent | R | | false | Unsupported hardware |
| CapSlpFullslip | R | | false | Unsupported hardware |
| CapSlp2Color | R | | false | Unsupported hardware |
| CapSlpBarCode | R | | false | Unsupported hardware |
| CapSlpBitmap | R | | false | Unsupported hardware |
| CapSlpBold | R | | false | Unsupported hardware |
| CapSlpDhigh | R | | false | Unsupported hardware |
| CapSlpDwide | R | | false | Unsupported hardware |
| CapSlpDwideDhigh | R | | false | Unsupported hardware |
| CapSlpEmptySensor | R | | false | Unsupported hardware |
| CapSlpItalic | R | | false | Unsupported hardware |
| CapSlpLeft90 | R | | false | Unsupported hardware |
| CapSlpNearEndSensor | R | | false | Unsupported hardware |
| CapSlpRight90 | R | | false | Unsupported hardware |
| CapSlpRotate180 | R | | false | Unsupported hardware |
| CapSlpRuledLine | R | | 0 | Unsupported hardware |
| CapSlpUnderline | R | | false | Unsupported hardware |
| CapSlpBothSidesPrint | R | | false | Unsupported hardware |
| CapSlpCartridgeSensor | R | | false | Unsupported hardware |
| CapSlpColor | R | | false | Unsupported hardware |
| CapSlpPageMode | R | | false | Unsupported hardware |
| AsyncMode | R/W | ✓ | true / false(default) | Refer to 4.5.6 AsyncMode Property |
| CartridgeNotify | R/W | | PTR_CN_DISABLED | |
| CharacterSet | R/W | ✓ | | |

| Property | Attribute | Status of support by the driver (CITIZEN S2000 *) | Notes |
|----------------------------|-----------|---|--|
| CharacterSetList | R | ✓ 255:User Defined 437:Code437 850:Code850 Multilingual 860:Code860 Portugal 863:Code863 Canada-French 865:Code865 Norway 852:Code852 EasternEurope 858:Code858 864:Code864 Arabic 874:Code874 Thai Code 18 866:Code866 Russia 857:Code857 Turkey 932:KANA 998:ASCII 999:Windows Code 1252:Windows Code | |
| CoverOpen | R | ✓ TRUE: POS printer cover is open. FALSE: POS printer cover is closed. | |
| ErrorLevel | R | ✓ PTR_EL_NONE PTR_EL_RECOVERABLE PTR_EL_FATAL | Refer to 4.5.7 ErrorLevel Property |
| ErrorStation | R | ✓ PTR_S_RECEIPT | |
| ErrorString | R | ✓ | Description on present error is retained. |
| FontTypefaceList | R | ✓ 0,1,2 | |
| FlagWhenIdle | R/W | ✓ | |
| MapMode | R/W | ✓ PTR_MM_DOTS(default) PTR_MM_TWIPS PTR_MM_ENGLISH PTR_MM_METRIC | |
| PageModeArea | R | ✓ RecLineWidth,936 | |
| PageModeDescriptor | R | ✓ PTR_PM_BITMAP PTR_PM_BARCODE PTR_PM_BM_ROTATE PTR_PM_BC_ROTATE | |
| PageModeHorizontalPosition | R/W | ✓ 0(default) | |
| PageModePrintArea | R/W | ✓ 0,0,0,0(default) | |
| PageModePrintDirection | R/W | ✓ PTR_PD_LEFT_TO_RIGHT(default) PTR_PD_BOTTOM_TO_TOP PTR_PD_RIGHT_TO_LEFT PTR_PD_TOP_TO_BOTTOM | |
| PageModeStation | R/W | ✓ PTR_S_RECEIPT | |
| PageModeVerticalPosition | R/W | ✓ 0(default) | |
| RotateSpecial | R/W | ✓ PTR_RP_NORMAL(default) PTR_RP_RIGHT90 PTR_RP_LEFT90 PTR_RP_ROTATE180 | |
| JrnLineChars | R/W | | Unsupported hardware |
| JrnLineCharsList | R | | Unsupported hardware |
| JrnLineHeight | R/W | | Unsupported hardware |
| JrnLineSpacing | R/W | | Unsupported hardware |
| JrnLineWidth | R | | Unsupported hardware |
| JrnLetterQuality | R/W | | Unsupported hardware |
| JrnEmpty | R | | Unsupported hardware |
| JrnNearEnd | R | | Unsupported hardware |
| JrnCartridgeState | R | PTR_CART_UNKNOWN | Unsupported hardware |
| JrnCurrentCartridge | R/W | | Unsupported hardware |
| RecBarCodeRotationList | R | ✓ 0, R90, L90, 180 | |
| RecBitmapRotationList | R | ✓ Raster bit image mode: 0,R90,L90,180 | |

| Property | Attribute | Status of support by the driver (CITIZEN S2000 *) | | Notes |
|------------------------|-----------|--|--|--|
| | | | NV bit image mode: 0,180 | |
| RecCartridgeState | R | | TR_CART_UNKNOWN | |
| RecCurrentCartridge | R/W | ✓ | PTR_COLOR_PRIMARY, PTR_COLOR_CUSTOM1 | |
| RecEmpty | R | ✓ | | |
| RecLetterQuality | R/W | | | Not supported |
| RecLineChars | R/W | ✓ | | Refer to 4.5.9 RecLineChars/ RecLineCharsList_Property |
| RecLineCharsList | R | ✓ | 58mm paper "30,40,45" "32,42,48" "35,46,42" 60mm paper "36,48,54" 80mm paper "42,56,64" "48,64,72" 83mm paper "53,71,80" | Refer to 4.5.9 RecLineChars/ RecLineCharsList_Property |
| RecLineHeight | R/W | ✓ | | The value is changed according to the RecLineChars property. |
| RecLineSpacing | R/W | ✓ | | Only if the value is smaller than RecLineHeight property, the value is changed in accordance with to the RecLineHeight property. |
| RecLinesToPaperCut | R | ✓ | | The value is changed according to the RecLineChars property. |
| RecLineWidth | R | ✓ | | The value is changed according to the RecLineChars property. |
| RecNearEnd | R | ✓ | | |
| RecSidewaysMaxLines | R | ✓ | | Refer to 4.5.11 RecSidewaysMaxLines_Property |
| RecSidewaysMaxChars | R | ✓ | | Refer to 4.5.10 RecSidewaysMaxChars_Property |
| SlpBarcodeRotationList | R | | | Unsupported hardware |
| SlpBitmapRotationList | R | | | Unsupported hardware |
| SlpCartridgeState | R | | PTR_CART_UNKNOWN | Unsupported hardware |
| SlpCurrentCartridge | R/W | | | Unsupported hardware |
| SlpEmpty | R | | | Unsupported hardware |
| SlpLetterQuality | R/W | | | Unsupported hardware |
| SlpLineChars | R/W | | | Unsupported hardware |
| SlpLineCharsList | R | | | Unsupported hardware |
| SlpLineHeight | R/W | | | Unsupported hardware |
| SlpLinesNearEndToEnd | R | | | Unsupported hardware |
| SlpLineSpacing | R/W | | | Unsupported hardware |
| SlpLineWidth | R | | | Unsupported hardware |
| SlpMaxLines | R | | | Unsupported hardware |
| SlpNearEnd | R | | | Unsupported hardware |
| SlpPrintSide | R | | PTR_PS_UNKNOWN | Unsupported hardware |
| SlpSidewaysMaxChars | R | | | Unsupported hardware |
| SlpSidewaysMaxLines | R | | | Unsupported hardware |

CT-S4000

| Property | Attribute | Status of support by the driver (CITIZEN S4000 *) | | Notes |
|---------------------------|-----------|--|--|---|
| AutoDisable | R/W | | Not applicable with POSPrinter | |
| CapCompareFirmwareVersion | R | | false | Not supported |
| CapPowerReporting | R | ✓ | JPOS_PR_ADVANCED | |
| CapStatisticsReporting | R | ✓ | true | |
| CapUpdateFirmware | R | | false | Not supported |
| CapUpdateStatistics | R | | false | Not supported |
| CheckHealthText | R | ✓ | | |
| Claimed | R | ✓ | | |
| DataCount | R | | Not applicable with POSPrinter | |
| DataEventEnabled | R/W | | Not applicable with POSPrinter | |
| DeviceEnabled | R/W | ✓ | | |
| FreezeEvents | R/W | ✓ | | |
| OutputID | R | ✓ | Increment (+1) | Refer to 4.5.8 OutputID Property/ OutputCompleteEvent Event |
| PowerNotify | R/W | ✓ | | |
| PowerState | R | ✓ | | |
| State | R | ✓ | Online and Ready state JPOS_PS_ONLINE(2001) Power off state JPOS_PS_OFF(2002) Not Ready state JPOS_PS_OFFLINE(2003) | |
| DeviceControlDescription | R | ✓ | JavaPOS POSPrinter Device Control | |
| DeviceControlVersion | R | ✓ | 1014000 | |
| DeviceServiceDescription | R | ✓ | CITIZEN Service Object for Thermal Printers ver 1.14.*.* | |
| DeviceServiceVersion | R | ✓ | 1014*** | |
| PhysicalDeviceDescription | R | ✓ | Citizen Thermal POSPrinter | |
| PhysicalDeviceName | R | ✓ | CITIZEN CT-S4000 POS Printer | |
| CapCharacterSet | R | ✓ | PTR_CCS_ASCII | |
| CapConcurrentJrnRec | R | | false | Unsupported hardware |
| CapConcurrentJrnSlp | R | | false | Unsupported hardware |
| CapConcurrentPageMode | R | | false | Unsupported hardware |
| CapConcurrentRecSlp | R | | false | Unsupported hardware |
| CapCoverSensor | R | ✓ | true | |
| CapTransaction | R | ✓ | true | |
| CapJrnPresent | R | | false | Unsupported hardware |
| CapJrn2Color | R | | false | Unsupported hardware |
| CapJrnBold | R | | false | Unsupported hardware |
| CapJrnDhigh | R | | false | Unsupported hardware |
| CapJrnDwide | R | | false | Unsupported hardware |
| CapJrnDwideDhigh | R | | false | Unsupported hardware |
| CapJrnEmptySensor | R | | false | Unsupported hardware |
| CapJrnItalic | R | | false | Unsupported hardware |
| CapJrnNearEndSensor | R | | false | Unsupported hardware |
| CapJrnUnderline | R | | false | Unsupported hardware |
| CapJrnCartridgeSensor | R | | false | Unsupported hardware |
| CapJrnColor | R | | false | Unsupported hardware |
| CapRecPresent | R | ✓ | true | |
| CapRec2Color | R | ✓ | true | Using paper printable in 2 colors |
| CapRecBarCode | R | ✓ | true | |
| CapRecBitmap | R | ✓ | true | |
| CapRecBold | R | ✓ | true | |

| Property | Attribute | Status of support by the driver (CITIZEN S4000 *) | | Notes |
|-----------------------|-----------|--|--|---|
| CapRecDhigh | R | ✓ | true | |
| CapRecDwide | R | ✓ | true | |
| CapRecDwideDhigh | R | ✓ | true | |
| CapRecEmptySensor | R | ✓ | true | |
| CapRecItalic | R | | false | Unsupported hardware |
| CapRecLeft90 | R | ✓ | true | |
| CapRecNearEndSensor | R | ✓ | true | |
| CapRecPapercut | R | ✓ | true | |
| CapRecRight90 | R | ✓ | true | |
| CapRecRotate180 | R | ✓ | true | |
| CapRecRuledLine | R | | 0 | Unsupported hardware |
| CapRecStamp | R | | false | |
| CapRecUnderline | R | ✓ | true | |
| CapRecCartridgeSensor | R | ✓ | PTR_CART_OK | |
| CapRecColor | R | ✓ | PTR_COLOR_PRIMARY PTR_CUSTOM_COLOR1 | |
| CapRecMarkFeed | R | ✓ | PTR_MF_TO_CUTTER PTR_MF_TO_NEXT_TOF | |
| CapRecPageMode | R | ✓ | true | |
| CapSlpPresent | R | | false | Unsupported hardware |
| CapSlpFullslip | R | | false | Unsupported hardware |
| CapSlp2Color | R | | false | Unsupported hardware |
| CapSlpBarCode | R | | false | Unsupported hardware |
| CapSlpBitmap | R | | false | Unsupported hardware |
| CapSlpBold | R | | false | Unsupported hardware |
| CapSlpDhigh | R | | false | Unsupported hardware |
| CapSlpDwide | R | | false | Unsupported hardware |
| CapSlpDwideDhigh | R | | false | Unsupported hardware |
| CapSlpEmptySensor | R | | false | Unsupported hardware |
| CapSlpItalic | R | | false | Unsupported hardware |
| CapSlpLeft90 | R | | false | Unsupported hardware |
| CapSlpNearEndSensor | R | | false | Unsupported hardware |
| CapSlpRight90 | R | | false | Unsupported hardware |
| CapSlpRotate180 | R | | false | Unsupported hardware |
| CapSlpRuledLine | R | | 0 | Unsupported hardware |
| CapSlpUnderline | R | | false | Unsupported hardware |
| CapSlpBothSidesPrint | R | | false | Unsupported hardware |
| CapSlpCartridgeSensor | R | | false | Unsupported hardware |
| CapSlpColor | R | | false | Unsupported hardware |
| CapSlpPageMode | R | | false | Unsupported hardware |
| AsyncMode | R/W | ✓ | true / false(default) | Refer to 4.5.6 AsyncMode Property |
| CartridgeNotify | R/W | | PTR_CN_DISABLED | |
| CharacterSet | R/W | ✓ | | |

| Property | Attribute | Status of support by the driver (CITIZEN S4000 *) | Notes |
|----------------------------|-----------|---|--|
| CharacterSetList | R | ✓ 255:User Defined 437:Code437 850:Code850 Multilingual 860:Code860 Portugal 863:Code863 Canada-French 865:Code865 Norway 852:Code852 EasternEurope 858:Code858 864:Code864 Arabic 874:Code874 Thai Code 18 866:Code866 Russia 857:Code857 Turkey 932:KANA 998:ASCII 999:Windows Code 1252:Windows Code | |
| CoverOpen | R | ✓ TRUE: POS printer cover is open. FALSE: POS printer cover is closed. | |
| ErrorLevel | R | ✓ PTR_EL_NONE PTR_EL_RECOVERABLE PTR_EL_FATAL | Refer to 4.5.7 ErrorLevel Property |
| ErrorStation | R | ✓ PTR_S_RECEIPT | |
| ErrorString | R | ✓ | Description on present error is retained. |
| FontTypefaceList | R | ✓ 0,1,2 | |
| FlagWhenIdle | R/W | ✓ | |
| MapMode | R/W | ✓ PTR_MM_DOTS(default) PTR_MM_TWIPS PTR_MM_ENGLISH PTR_MM_METRIC | |
| PageModeArea | R | ✓ RecLineWidth,936 | |
| PageModeDescriptor | R | ✓ PTR_PM_BITMAP PTR_PM_BARCODE PTR_PM_BM_ROTATE PTR_PM_BC_ROTATE | |
| PageModeHorizontalPosition | R/W | ✓ 0(default) | |
| PageModePrintArea | R/W | ✓ 0,0,0,0(default) | |
| PageModePrintDirection | R/W | ✓ PTR_PD_LEFT_TO_RIGHT(default) PTR_PD_BOTTOM_TO_TOP PTR_PD_RIGHT_TO_LEFT PTR_PD_TOP_TO_BOTTOM | |
| PageModeStation | R/W | ✓ PTR_S_RECEIPT | |
| PageModeVerticalPosition | R/W | ✓ 0(default) | |
| RotateSpecial | R/W | ✓ PTR_RP_NORMAL(default) PTR_RP_RIGHT90 PTR_RP_LEFT90 PTR_RP_ROTATE180 | |
| JrnLineChars | R/W | | Unsupported hardware |
| JrnLineCharsList | R | | Unsupported hardware |
| JrnLineHeight | R/W | | Unsupported hardware |
| JrnLineSpacing | R/W | | Unsupported hardware |
| JrnLineWidth | R | | Unsupported hardware |
| JrnLetterQuality | R/W | | Unsupported hardware |
| JrnEmpty | R | | Unsupported hardware |
| JrnNearEnd | R | | Unsupported hardware |
| JrnCartridgeState | R | PTR_CART_UNKNOWN | Unsupported hardware |
| JrnCurrentCartridge | R/W | | Unsupported hardware |
| RecBarCodeRotationList | R | ✓ 0, R90, L90, 180 | |
| RecBitmapRotationList | R | ✓ Raster bit image mode: 0,R90,L90,180 | |

| Property | Attribute | Status of support by the driver (CITIZEN S4000 *) | | Notes |
|------------------------|-----------|--|---|--|
| | | | NV bit image mode: 0,180 | |
| RecCartridgeState | R | | TR_CART_UNKNOWN | |
| RecCurrentCartridge | R/W | ✓ | PTR_COLOR_PRIMARY, PTR_COLOR_CUSTOM1 | |
| RecEmpty | R | ✓ | | |
| RecLetterQuality | R/W | | | Not supported |
| RecLineChars | R/W | ✓ | | Refer to 4.5.9 RecLineChars/ RecLineCharsList_Property |
| RecLineCharsList | R | ✓ | 80mm paper "42,56,64 " "48,64,72" 82.5mm paper "55,73,82" 112mm paper "60,80,90" "69,92,104" | Refer to 4.5.9 RecLineChars/ RecLineCharsList_Property |
| RecLineHeight | R/W | ✓ | | The value is changed according to the RecLineChars property. |
| RecLineSpacing | R/W | ✓ | | Only if the value is smaller than RecLineHeight property, the value is changed in accordance with to the RecLineHeight property. |
| RecLinesToPaperCut | R | ✓ | | The value is changed according to the RecLineChars property. |
| RecLineWidth | R | ✓ | | The value is changed according to the RecLineChars property. |
| RecNearEnd | R | ✓ | | |
| RecSidewaysMaxLines | R | ✓ | | Refer to 4.5.11 RecSidewaysMaxLines_Property |
| RecSidewaysMaxChars | R | ✓ | | Refer to 4.5.10 RecSidewaysMaxChars_Property |
| SlpBarCodeRotationList | R | | | Unsupported hardware |
| SlpBitmapRotationList | R | | | Unsupported hardware |
| SlpCartridgeState | R | | PTR_CART_UNKNOWN | Unsupported hardware |
| SlpCurrentCartridge | R/W | | | Unsupported hardware |
| SlpEmpty | R | | | Unsupported hardware |
| SlpLetterQuality | R/W | | | Unsupported hardware |
| SlpLineChars | R/W | | | Unsupported hardware |
| SlpLineCharsList | R | | | Unsupported hardware |
| SlpLineHeight | R/W | | | Unsupported hardware |
| SlpLinesNearEndToEnd | R | | | Unsupported hardware |
| SlpLineSpacing | R/W | | | Unsupported hardware |
| SlpLineWidth | R | | | Unsupported hardware |
| SlpMaxLines | R | | | Unsupported hardware |
| SlpNearEnd | R | | | Unsupported hardware |
| SlpPrintSide | R | | PTR_PS_UNKNOWN | Unsupported hardware |
| SlpSidewaysMaxChars | R | | | Unsupported hardware |
| SlpSidewaysMaxLines | R | | | Unsupported hardware |

CT-S4500

| Property | Attribute | Status of support by the driver (CITIZEN S4500 *) | | Notes |
|---------------------------|-----------|--|--|---|
| AutoDisable | R/W | | Not applicable with POSPrinter | |
| CapCompareFirmwareVersion | R | | false | Not supported |
| CapPowerReporting | R | ✓ | JPOS_PR_ADVANCED | |
| CapStatisticsReporting | R | ✓ | true | |
| CapUpdateFirmware | R | | false | Not supported |
| CapUpdateStatistics | R | | false | Not supported |
| CheckHealthText | R | ✓ | | |
| Claimed | R | ✓ | | |
| DataCount | R | | Not applicable with POSPrinter | |
| DataEventEnabled | R/W | | Not applicable with POSPrinter | |
| DeviceEnabled | R/W | ✓ | | |
| FreezeEvents | R/W | ✓ | | |
| OutputID | R | ✓ | Increment (+1) | Refer to 4.5.8 OutputID Property/ OutputCompleteEvent Event |
| PowerNotify | R/W | ✓ | | |
| PowerState | R | ✓ | | |
| State | R | ✓ | Online and Ready state JPOS_PS_ONLINE(2001) Power off state JPOS_PS_OFF(2002) Not Ready state JPOS_PS_OFFLINE(2003) | |
| DeviceControlDescription | R | ✓ | JavaPOS POSPrinter Device Control | |
| DeviceControlVersion | R | ✓ | 1014000 | |
| DeviceServiceDescription | R | ✓ | CITIZEN Service Object for Thermal Printers ver 1.14.*.* | |
| DeviceServiceVersion | R | ✓ | 1014*** | |
| PhysicalDeviceDescription | R | ✓ | Citizen Thermal POSPrinter | |
| PhysicalDeviceName | R | ✓ | CITIZEN CT-S4500 POS Printer | |
| CapCharacterSet | R | ✓ | PTR_CCS_ASCII | |
| CapConcurrentJrnRec | R | | false | Unsupported hardware |
| CapConcurrentJrnSlp | R | | false | Unsupported hardware |
| CapConcurrentPageMode | R | | false | Unsupported hardware |
| CapConcurrentRecSlp | R | | false | Unsupported hardware |
| CapCoverSensor | R | ✓ | true | |
| CapTransaction | R | ✓ | true | |
| CapJrnPresent | R | | false | Unsupported hardware |
| CapJrn2Color | R | | false | Unsupported hardware |
| CapJrnBold | R | | false | Unsupported hardware |
| CapJrnDhigh | R | | false | Unsupported hardware |
| CapJrnDwide | R | | false | Unsupported hardware |
| CapJrnDwideDhigh | R | | false | Unsupported hardware |
| CapJrnEmptySensor | R | | false | Unsupported hardware |
| CapJrnItalic | R | | false | Unsupported hardware |
| CapJrnNearEndSensor | R | | false | Unsupported hardware |
| CapJrnUnderline | R | | false | Unsupported hardware |
| CapJrnCartridgeSensor | R | | false | Unsupported hardware |
| CapJrnColor | R | | false | Unsupported hardware |
| CapRecPresent | R | ✓ | true | |
| CapRec2Color | R | ✓ | true | Using paper printable in 2 colors |
| CapRecBarCode | R | ✓ | true | |
| CapRecBitmap | R | ✓ | true | |
| CapRecBold | R | ✓ | true | |

| Property | Attribute | Status of support by the driver (CITIZEN S4500 *) | | Notes |
|-----------------------|-----------|--|--|---|
| CapRecDhigh | R | ✓ | true | |
| CapRecDwide | R | ✓ | true | |
| CapRecDwideDhigh | R | ✓ | true | |
| CapRecEmptySensor | R | ✓ | true | |
| CapRecItalic | R | | false | Unsupported hardware |
| CapRecLeft90 | R | ✓ | true | |
| CapRecNearEndSensor | R | ✓ | true | |
| CapRecPapercut | R | ✓ | true | |
| CapRecRight90 | R | ✓ | true | |
| CapRecRotate180 | R | ✓ | true | |
| CapRecRuledLine | R | | 0 | Unsupported hardware |
| CapRecStamp | R | | false | |
| CapRecUnderline | R | ✓ | true | |
| CapRecCartridgeSensor | R | ✓ | PTR_CART_OK | |
| CapRecColor | R | | 0 | Unsupported hardware |
| CapRecMarkFeed | R | ✓ | PTR_MF_TO_CUTTER PTR_MF_TO_NEXT_TOF | |
| CapRecPageMode | R | ✓ | true | |
| CapSlpPresent | R | | false | Unsupported hardware |
| CapSlpFullslip | R | | false | Unsupported hardware |
| CapSlp2Color | R | | false | Unsupported hardware |
| CapSlpBarCode | R | | false | Unsupported hardware |
| CapSlpBitmap | R | | false | Unsupported hardware |
| CapSlpBold | R | | false | Unsupported hardware |
| CapSlpDhigh | R | | false | Unsupported hardware |
| CapSlpDwide | R | | false | Unsupported hardware |
| CapSlpDwideDhigh | R | | false | Unsupported hardware |
| CapSlpEmptySensor | R | | false | Unsupported hardware |
| CapSlpItalic | R | | false | Unsupported hardware |
| CapSlpLeft90 | R | | false | Unsupported hardware |
| CapSlpNearEndSensor | R | | false | Unsupported hardware |
| CapSlpRight90 | R | | false | Unsupported hardware |
| CapSlpRotate180 | R | | false | Unsupported hardware |
| CapSlpRuledLine | R | | 0 | Unsupported hardware |
| CapSlpUnderline | R | | false | Unsupported hardware |
| CapSlpBothSidesPrint | R | | false | Unsupported hardware |
| CapSlpCartridgeSensor | R | | false | Unsupported hardware |
| CapSlpColor | R | | false | Unsupported hardware |
| CapSlpPageMode | R | | false | Unsupported hardware |
| AsyncMode | R/W | ✓ | true / false(default) | Refer to 4.5.6 AsyncMode Property |
| CartridgeNotify | R/W | | PTR_CN_DISABLED | |
| CharacterSet | R/W | ✓ | | |

| Property | Attribute | Status of support by the driver (CITIZEN S4500 *) | Notes |
|----------------------------|-----------|--|--|
| CharacterSetList | R | ✓ 255:User Defined 437:Code437 850:Code850 Multilingual 860:Code860 Portugal 863:Code863 Canada-French 865:Code865 Norway 852:Code852 EasternEurope 858:Code858 864:Code864 Arabic 874:Code874 Tai Code 18 866:Code866 Russia 857:Code857 Turkey 932:KANA 936:Chinese 998:ASCII 999:Windows Code 1252:Windows Code 1258: Code1258 Vietnamese 65001: UTF-8 | |
| CoverOpen | R | ✓ TRUE: POS printer cover is open. FALSE: POS printer cover is closed. | |
| ErrorLevel | R | ✓ PTR_EL_NONE PTR_EL_RECOVERABLE PTR_EL_FATAL | Refer to 4.5.7 ErrorLevel Property |
| ErrorStation | R | ✓ PTR_S_RECEIPT | |
| ErrorString | R | ✓ | Description on present error is retained. |
| FontTypefaceList | R | ✓ 0,1,2 | |
| FlagWhenIdle | R/W | ✓ | |
| MapMode | R/W | ✓ PTR_MM_DOTS(default) PTR_MM_TWIPS PTR_MM_ENGLISH PTR_MM_METRIC | |
| PageModeArea | R | ✓ RecLineWidth,936 | |
| PageModeDescriptor | R | ✓ PTR_PM_BITMAP PTR_PM_BARCODE PTR_PM_BM_ROTATE PTR_PM_BC_ROTATE | |
| PageModeHorizontalPosition | R/W | ✓ 0(default) | |
| PageModePrintArea | R/W | ✓ 0,0,0,0(default) | |
| PageModePrintDirection | R/W | ✓ PTR_PD_LEFT_TO_RIGHT(default) PTR_PD_BOTTOM_TO_TOP PTR_PD_RIGHT_TO_LEFT PTR_PD_TOP_TO_BOTTOM | |
| PageModeStation | R/W | ✓ PTR_S_RECEIPT | |
| PageModeVerticalPosition | R/W | ✓ 0(default) | |
| RotateSpecial | R/W | ✓ PTR_RP_NORMAL(default) PTR_RP_RIGHT90 PTR_RP_LEFT90 PTR_RP_ROTATE180 | |
| JrnLineChars | R/W | | Unsupported hardware |
| JrnLineCharsList | R | | Unsupported hardware |
| JrnLineHeight | R/W | | Unsupported hardware |
| JrnLineSpacing | R/W | | Unsupported hardware |
| JrnLineWidth | R | | Unsupported hardware |
| JrnLetterQuality | R/W | | Unsupported hardware |
| JrnEmpty | R | | Unsupported hardware |
| JrnNearEnd | R | | Unsupported hardware |
| JrnCartridgeState | R | PTR_CART_UNKNOWN | Unsupported hardware |

| Property | Attribute | Status of support by the driver (CITIZEN S4500 *) | | Notes |
|------------------------|-----------|--|---|--|
| JrnCurrentCartridge | R/W | | | Unsupported hardware |
| RecBarCodeRotationList | R | ✓ | 0, R90, L90, 180 | |
| RecBitmapRotationList | R | ✓ | Raster bit image mode: 0,R90,L90,180 NV bit image mode: 0,180 | |
| RecCartridgeState | R | | TR_CART_UNKNOWN | |
| RecCurrentCartridge | R/W | | PTR_COLOR_PRIMARY | Unsupported hardware |
| RecEmpty | R | ✓ | | |
| RecLetterQuality | R/W | | | Not supported |
| RecLineChars | R/W | ✓ | | Refer to 4.5.9 RecLineChars/RecLineCharsList Property |
| RecLineCharsList | R | ✓ | 58mm paper "30,40,45" "32,42,48" "35,46,52" "36,48,54" 80mm paper "42,56,64 " "48,64,72" 82.5mm paper "55,73,82" 112mm paper "60,80,90" "69,92,104" | Refer to 4.5.9 RecLineChars/RecLineCharsList Property |
| RecLineHeight | R/W | ✓ | | The value is changed according to the RecLineChars property. |
| RecLineSpacing | R/W | ✓ | | Only if the value is smaller than RecLineHeight property, the value is changed in accordance with to the RecLineHeight property. |
| RecLinesToPaperCut | R | ✓ | | The value is changed according to the RecLineChars property. |
| RecLineWidth | R | ✓ | | The value is changed according to the RecLineChars property. |
| RecNearEnd | R | ✓ | | |
| RecSidewaysMaxLines | R | ✓ | | Refer to 4.5.11 RecSidewaysMaxLines Property |
| RecSidewaysMaxChars | R | ✓ | | Refer to 4.5.10 RecSidewaysMaxChars Property |
| SlpBarCodeRotationList | R | | | Unsupported hardware |
| SlpBitmapRotationList | R | | | Unsupported hardware |
| SlpCartridgeState | R | | PTR_CART_UNKNOWN | Unsupported hardware |
| SlpCurrentCartridge | R/W | | | Unsupported hardware |
| SlpEmpty | R | | | Unsupported hardware |
| SlpLetterQuality | R/W | | | Unsupported hardware |
| SlpLineChars | R/W | | | Unsupported hardware |
| SlpLineCharsList | R | | | Unsupported hardware |
| SlpLineHeight | R/W | | | Unsupported hardware |
| SlpLinesNearEndToEnd | R | | | Unsupported hardware |
| SlpLineSpacing | R/W | | | Unsupported hardware |
| SlpLineWidth | R | | | Unsupported hardware |
| SlpMaxLines | R | | | Unsupported hardware |
| SlpNearEnd | R | | | Unsupported hardware |
| SlpPrintSide | R | | PTR_PS_UNKNOWN | Unsupported hardware |
| SlpSidewaysMaxChars | R | | | Unsupported hardware |
| SlpSidewaysMaxLines | R | | | Unsupported hardware |

PMU2300III

| Property | Attribute | Status of support by the driver (CITIZEN PMU2300III *) | | Notes |
|---------------------------|-----------|---|--|---|
| AutoDisable | R/W | | Not applicable with POSPrinter | |
| CapCompareFirmwareVersion | R | | false | Not supported |
| CapPowerReporting | R | ✓ | JPOS_PR_ADVANCED | |
| CapStatisticsReporting | R | ✓ | true | |
| CapUpdateFirmware | R | | false | Not supported |
| CapUpdateStatistics | R | | false | Not supported |
| CheckHealthText | R | ✓ | | |
| Claimed | R | ✓ | | |
| DataCount | R | | Not applicable with POSPrinter | |
| DataEventEnabled | R/W | | Not applicable with POSPrinter | |
| DeviceEnabled | R/W | ✓ | | |
| FreezeEvents | R/W | ✓ | | |
| OutputID | R | ✓ | Increment (+1) | Refer to 4.5.8 OutputID Property/ OutputCompleteEvent Event |
| PowerNotify | R/W | ✓ | | |
| PowerState | R | ✓ | | |
| State | R | ✓ | Online and Ready state JPOS_PS_ONLINE(2001) Power off state JPOS_PS_OFF(2002) Not Ready state JPOS_PS_OFFLINE(2003) | |
| DeviceControlDescription | R | ✓ | JavaPOS POSPrinter Device Control | |
| DeviceControlVersion | R | ✓ | 1014000 | |
| DeviceServiceDescription | R | ✓ | CITIZEN Service Object for Thermal Printers ver 1.14.*.* | |
| DeviceServiceVersion | R | ✓ | 1014*** | |
| PhysicalDeviceDescription | R | ✓ | Citizen Thermal POSPrinter | |
| PhysicalDeviceName | R | ✓ | CITIZEN PMU2300III POS Printer | |
| CapCharacterSet | R | ✓ | PTR_CCS_ASCII | |
| CapConcurrentJrnRec | R | | false | Unsupported hardware |
| CapConcurrentJrnSlp | R | | false | Unsupported hardware |
| CapConcurrentPageMode | R | | false | Unsupported hardware |
| CapConcurrentRecSlp | R | | false | Unsupported hardware |
| CapCoverSensor | R | ✓ | true | |
| CapTransaction | R | ✓ | true | |
| CapJrnPresent | R | | false | Unsupported hardware |
| CapJrn2Color | R | | false | Unsupported hardware |
| CapJrnBold | R | | false | Unsupported hardware |
| CapJrnDhigh | R | | false | Unsupported hardware |
| CapJrnDwide | R | | false | Unsupported hardware |
| CapJrnDwideDhigh | R | | false | Unsupported hardware |
| CapJrnEmptySensor | R | | false | Unsupported hardware |
| CapJrnItalic | R | | false | Unsupported hardware |
| CapJrnNearEndSensor | R | | false | Unsupported hardware |
| CapJrnUnderline | R | | false | Unsupported hardware |
| CapJrnCartridgeSensor | R | | false | Unsupported hardware |
| CapJrnColor | R | | false | Unsupported hardware |
| CapRecPresent | R | ✓ | true | |
| CapRec2Color | R | ✓ | true | Using paper printable in 2 colors |
| CapRecBarCode | R | ✓ | true | |
| CapRecBitmap | R | ✓ | true | |
| CapRecBold | R | ✓ | true | |

| Property | Attribute | Status of support by the driver (CITIZEN PMU2300III *) | | Notes |
|-----------------------|-----------|---|--|---|
| CapRecDhigh | R | ✓ | true | |
| CapRecDwide | R | ✓ | true | |
| CapRecDwideDhigh | R | ✓ | true | |
| CapRecEmptySensor | R | ✓ | true | |
| CapRecItalic | R | | false | Unsupported hardware |
| CapRecLeft90 | R | ✓ | true | |
| CapRecNearEndSensor | R | ✓ | true | |
| CapRecPapercut | R | ✓ | true | |
| CapRecRight90 | R | ✓ | true | |
| CapRecRotate180 | R | ✓ | true | |
| CapRecRuledLine | R | | 0 | Unsupported hardware |
| CapRecStamp | R | | false | |
| CapRecUnderline | R | ✓ | true | |
| CapRecCartridgeSensor | R | ✓ | PTR_CART_OK | |
| CapRecColor | R | ✓ | PTR_COLOR_PRIMARY PTR_COLOR_CUSTOM1 | |
| CapRecMarkFeed | R | ✓ | PTR_MF_TO_CUTTER PTR_MF_TO_NEXT_TOF | |
| CapRecPageMode | R | | false | Not supported |
| CapSlpPresent | R | | false | Unsupported hardware |
| CapSlpFullslip | R | | false | Unsupported hardware |
| CapSlp2Color | R | | false | Unsupported hardware |
| CapSlpBarCode | R | | false | Unsupported hardware |
| CapSlpBitmap | R | | false | Unsupported hardware |
| CapSlpBold | R | | false | Unsupported hardware |
| CapSlpDhigh | R | | false | Unsupported hardware |
| CapSlpDwide | R | | false | Unsupported hardware |
| CapSlpDwideDhigh | R | | false | Unsupported hardware |
| CapSlpEmptySensor | R | | false | Unsupported hardware |
| CapSlpItalic | R | | false | Unsupported hardware |
| CapSlpLeft90 | R | | false | Unsupported hardware |
| CapSlpNearEndSensor | R | | false | Unsupported hardware |
| CapSlpRight90 | R | | false | Unsupported hardware |
| CapSlpRotate180 | R | | false | Unsupported hardware |
| CapSlpRuledLine | R | | 0 | Unsupported hardware |
| CapSlpUnderline | R | | false | Unsupported hardware |
| CapSlpBothSidesPrint | R | | false | Unsupported hardware |
| CapSlpCartridgeSensor | R | | false | Unsupported hardware |
| CapSlpColor | R | | false | Unsupported hardware |
| CapSlpPageMode | R | | false | Unsupported hardware |
| AsyncMode | R/W | ✓ | true / false(default) | Refer to 4.5.6 AsyncMode Property |
| CartridgeNotify | R/W | | PTR_CN_DISABLED | |
| CharacterSet | R/W | ✓ | | |

| Property | Attribute | Status of support by the driver (CITIZEN PMU2300III *) | Notes |
|----------------------------|-----------|--|--|
| CharacterSetList | R | ✓ 255:User Defined 437:Code437 850:Code850 Multilingual 860:Code860 Portugal 863:Code863 Canada-French 865:Code865 Norway 852:Code852 EasternEurope 858:Code858 864:Code864 Arabic 874:Code874 Tai Code 18 866:Code866 Russia 857:Code857 Turkey 932:KANA 998:ASCII 999:Windows Code 1252:Windows Code | |
| CoverOpen | R | ✓ TRUE: POS printer cover is open. FALSE: POS printer cover is closed. | |
| ErrorLevel | R | ✓ PTR_EL_NONE PTR_EL_RECOVERABLE PTR_EL_FATAL | Refer to 4.5.7 ErrorLevel Property |
| ErrorStation | R | ✓ PTR_S_RECEIPT | |
| ErrorString | R | ✓ | Description on present error is retained. |
| FontTypefaceList | R | ✓ 0,1,2 | |
| FlagWhenIdle | R/W | ✓ | |
| MapMode | R/W | ✓ PTR_MM_DOTS(default) PTR_MM_TWIPS PTR_MM_ENGLISH PTR_MM_METRIC | |
| PageModeArea | R | ✓ RecLineWidth,936 | |
| PageModeDescriptor | R | ✓ PTR_PM_BITMAP PTR_PM_BARCODE PTR_PM_BM_ROTATE PTR_PM_BC_ROTATE | |
| PageModeHorizontalPosition | R/W | ✓ 0(default) | |
| PageModePrintArea | R/W | ✓ 0,0,0,0(default) | |
| PageModePrintDirection | R/W | ✓ PTR_PD_LEFT_TO_RIGHT(default) PTR_PD_BOTTOM_TO_TOP PTR_PD_RIGHT_TO_LEFT PTR_PD_TOP_TO_BOTTOM | |
| PageModeStation | R/W | ✓ PTR_S_RECEIPT | |
| PageModeVerticalPosition | R/W | ✓ 0(default) | |
| RotateSpecial | R/W | ✓ PTR_RP_NORMAL(default) PTR_RP_RIGHT90 PTR_RP_LEFT90 PTR_RP_ROTATE180 | |
| JrnLineChars | R/W | | Unsupported hardware |
| JrnLineCharsList | R | | Unsupported hardware |
| JrnLineHeight | R/W | | Unsupported hardware |
| JrnLineSpacing | R/W | | Unsupported hardware |
| JrnLineWidth | R | | Unsupported hardware |
| JrnLetterQuality | R/W | | Unsupported hardware |
| JrnEmpty | R | | Unsupported hardware |
| JrnNearEnd | R | | Unsupported hardware |
| JrnCartridgeState | R | PTR_CART_UNKNOWN | Unsupported hardware |
| JrnCurrentCartridge | R/W | | Unsupported hardware |
| RecBarCodeRotationList | R | ✓ 0, R90, L90, 180 | |
| RecBitmapRotationList | R | ✓ Raster bit image mode: 0,R90,L90,180 | |

| Property | Attribute | Status of support by the driver (CITIZEN PMU2300III *) | | Notes |
|------------------------|-----------|---|---|--|
| | | | NV bit image mode: 0,180 | |
| RecCartridgeState | R | | TR_CART_UNKNOWN | |
| RecCurrentCartridge | R/W | ✓ | PTR_COLOR_PRIMARY, PTR_COLOR_CUSTOM1 | |
| RecEmpty | R | ✓ | | |
| RecLetterQuality | R/W | | | Not supported |
| RecLineChars | R/W | ✓ | | Refer to 4.5.9 RecLineChars/ RecLineCharsList_Property |
| RecLineCharsList | R | ✓ | 80 mm paper "42,56,63" "48,64,72" | Refer to 4.5.9 RecLineChars/ RecLineCharsList_Property |
| RecLineHeight | R/W | ✓ | | The value is changed according to the RecLineChars property. |
| RecLineSpacing | R/W | ✓ | | Only if the value is smaller than RecLineHeight property, the value is changed in accordance with to the RecLineHeight property. |
| RecLinesToPaperCut | R | ✓ | | The value is changed according to the RecLineChars property. |
| RecLineWidth | R | ✓ | | The value is changed according to the RecLineChars property. |
| RecNearEnd | R | ✓ | | |
| RecSidewaysMaxLines | R | ✓ | | Refer to 4.5.11 RecSidewaysMaxLines_Property |
| RecSidewaysMaxChars | R | ✓ | | Refer to 4.5.10 RecSidewaysMaxChars_Property |
| SlpBarcodeRotationList | R | | | Unsupported hardware |
| SlpBitmapRotationList | R | | | Unsupported hardware |
| SlpCartridgeState | R | | PTR_CART_UNKNOWN | Unsupported hardware |
| SlpCurrentCartridge | R/W | | | Unsupported hardware |
| SlpEmpty | R | | | Unsupported hardware |
| SlpLetterQuality | R/W | | | Unsupported hardware |
| SlpLineChars | R/W | | | Unsupported hardware |
| SlpLineCharsList | R | | | Unsupported hardware |
| SlpLineHeight | R/W | | | Unsupported hardware |
| SlpLinesNearEndToEnd | R | | | Unsupported hardware |
| SlpLineSpacing | R/W | | | Unsupported hardware |
| SlpLineWidth | R | | | Unsupported hardware |
| SlpMaxLines | R | | | Unsupported hardware |
| SlpNearEnd | R | | | Unsupported hardware |
| SlpPrintSide | R | | PTR_PS_UNKNOWN | Unsupported hardware |
| SlpSidewaysMaxChars | R | | | Unsupported hardware |
| SlpSidewaysMaxLines | R | | | Unsupported hardware |

PMU3300

| Property | Attribute | Status of support by the driver (CITIZEN PMU2300III *) | | Notes |
|---------------------------|-----------|---|--|---|
| AutoDisable | R/W | | Not applicable with POSPrinter | |
| CapCompareFirmwareVersion | R | | false | Not supported |
| CapPowerReporting | R | ✓ | JPOS_PR_ADVANCED | |
| CapStatisticsReporting | R | ✓ | true | |
| CapUpdateFirmware | R | | false | Not supported |
| CapUpdateStatistics | R | | false | Not supported |
| CheckHealthText | R | ✓ | | |
| Claimed | R | ✓ | | |
| DataCount | R | | Not applicable with POSPrinter | |
| DataEventEnabled | R/W | | Not applicable with POSPrinter | |
| DeviceEnabled | R/W | ✓ | | |
| FreezeEvents | R/W | ✓ | | |
| OutputID | R | ✓ | Increment (+1) | Refer to 4.5.8 OutputID Property/ OutputCompleteEvent Event |
| PowerNotify | R/W | ✓ | | |
| PowerState | R | ✓ | | |
| State | R | ✓ | Online and Ready state JPOS_PS_ONLINE(2001) Power off state JPOS_PS_OFF(2002) Not Ready state JPOS_PS_OFFLINE(2003) | |
| DeviceControlDescription | R | ✓ | JavaPOS POSPrinter Device Control | |
| DeviceControlVersion | R | ✓ | 1014000 | |
| DeviceServiceDescription | R | ✓ | CITIZEN Service Object for Thermal Printers ver 1.14.*.* | |
| DeviceServiceVersion | R | ✓ | 1014*** | |
| PhysicalDeviceDescription | R | ✓ | Citizen Thermal POSPrinter | |
| PhysicalDeviceName | R | ✓ | CITIZEN PMU2300III POS Printer | |
| CapCharacterSet | R | ✓ | PTR_CCS_ASCII | |
| CapConcurrentJrnRec | R | | false | Unsupported hardware |
| CapConcurrentJrnSlp | R | | false | Unsupported hardware |
| CapConcurrentPageMode | R | | false | Unsupported hardware |
| CapConcurrentRecSlp | R | | false | Unsupported hardware |
| CapCoverSensor | R | ✓ | true | |
| CapTransaction | R | ✓ | true | |
| CapJrnPresent | R | | false | Unsupported hardware |
| CapJrn2Color | R | | false | Unsupported hardware |
| CapJrnBold | R | | false | Unsupported hardware |
| CapJrnDhigh | R | | false | Unsupported hardware |
| CapJrnDwide | R | | false | Unsupported hardware |
| CapJrnDwideDhigh | R | | false | Unsupported hardware |
| CapJrnEmptySensor | R | | false | Unsupported hardware |
| CapJrnItalic | R | | false | Unsupported hardware |
| CapJrnNearEndSensor | R | | false | Unsupported hardware |
| CapJrnUnderline | R | | false | Unsupported hardware |
| CapJrnCartridgeSensor | R | | false | Unsupported hardware |
| CapJrnColor | R | | false | Unsupported hardware |
| CapRecPresent | R | ✓ | true | |
| CapRec2Color | R | ✓ | true | Using paper printable in 2 colors |
| CapRecBarCode | R | ✓ | true | |
| CapRecBitmap | R | ✓ | true | |
| CapRecBold | R | ✓ | true | |

| Property | Attribute | Status of support by the driver (CITIZEN PMU2300III *) | | Notes |
|-----------------------|-----------|---|--|---|
| CapRecDhigh | R | ✓ | true | |
| CapRecDwide | R | ✓ | true | |
| CapRecDwideDhigh | R | ✓ | true | |
| CapRecEmptySensor | R | ✓ | true | |
| CapRecItalic | R | | false | Unsupported hardware |
| CapRecLeft90 | R | ✓ | true | |
| CapRecNearEndSensor | R | ✓ | true | |
| CapRecPapercut | R | ✓ | true | |
| CapRecRight90 | R | ✓ | true | |
| CapRecRotate180 | R | ✓ | true | |
| CapRecRuledLine | R | | 0 | Unsupported hardware |
| CapRecStamp | R | | false | |
| CapRecUnderline | R | ✓ | true | |
| CapRecCartridgeSensor | R | ✓ | PTR_CART_OK | |
| CapRecColor | R | ✓ | PTR_COLOR_PRIMARY PTR_COLOR_CUSTOM1 | |
| CapRecMarkFeed | R | ✓ | PTR_MF_TO_CUTTER PTR_MF_TO_NEXT_TOF | |
| CapRecPageMode | R | | false | Not supported |
| CapSlpPresent | R | | false | Unsupported hardware |
| CapSlpFullslip | R | | false | Unsupported hardware |
| CapSlp2Color | R | | false | Unsupported hardware |
| CapSlpBarCode | R | | false | Unsupported hardware |
| CapSlpBitmap | R | | false | Unsupported hardware |
| CapSlpBold | R | | false | Unsupported hardware |
| CapSlpDhigh | R | | false | Unsupported hardware |
| CapSlpDwide | R | | false | Unsupported hardware |
| CapSlpDwideDhigh | R | | false | Unsupported hardware |
| CapSlpEmptySensor | R | | false | Unsupported hardware |
| CapSlpItalic | R | | false | Unsupported hardware |
| CapSlpLeft90 | R | | false | Unsupported hardware |
| CapSlpNearEndSensor | R | | false | Unsupported hardware |
| CapSlpRight90 | R | | false | Unsupported hardware |
| CapSlpRotate180 | R | | false | Unsupported hardware |
| CapSlpRuledLine | R | | 0 | Unsupported hardware |
| CapSlpUnderline | R | | false | Unsupported hardware |
| CapSlpBothSidesPrint | R | | false | Unsupported hardware |
| CapSlpCartridgeSensor | R | | false | Unsupported hardware |
| CapSlpColor | R | | false | Unsupported hardware |
| CapSlpPageMode | R | | false | Unsupported hardware |
| AsyncMode | R/W | ✓ | true / false(default) | Refer to 4.5.6 AsyncMode Property |
| CartridgeNotify | R/W | | PTR_CN_DISABLED | |
| CharacterSet | R/W | ✓ | | |

| Property | Attribute | Status of support by the driver (CITIZEN PMU2300III *) | Notes |
|----------------------------|-----------|--|--|
| CharacterSetList | R | ✓ 255:User Defined 437:Code437 850:Code850 Multilingual 860:Code860 Portugal 863:Code863 Canada-French 865:Code865 Norway 852:Code852 EasternEurope 858:Code858 864:Code864 Arabic 874:Code874 Tai Code 18 866:Code866 Russia 857:Code857 Turkey 932:KANA 998:ASCII 999:Windows Code 1252:Windows Code | |
| CoverOpen | R | ✓ TRUE: POS printer cover is open. FALSE: POS printer cover is closed. | |
| ErrorLevel | R | ✓ PTR_EL_NONE PTR_EL_RECOVERABLE PTR_EL_FATAL | Refer to 4.5.7 ErrorLevel Property |
| ErrorStation | R | ✓ PTR_S_RECEIPT | |
| ErrorString | R | ✓ | Description on present error is retained. |
| FontTypefaceList | R | ✓ 0,1,2 | |
| FlagWhenIdle | R/W | ✓ | |
| MapMode | R/W | ✓ PTR_MM_DOTS(default) PTR_MM_TWIPS PTR_MM_ENGLISH PTR_MM_METRIC | |
| PageModeArea | R | ✓ RecLineWidth,936 | |
| PageModeDescriptor | R | ✓ PTR_PM_BITMAP PTR_PM_BARCODE PTR_PM_BM_ROTATE PTR_PM_BC_ROTATE | |
| PageModeHorizontalPosition | R/W | ✓ 0(default) | |
| PageModePrintArea | R/W | ✓ 0,0,0,0(default) | |
| PageModePrintDirection | R/W | ✓ PTR_PD_LEFT_TO_RIGHT(default) PTR_PD_BOTTOM_TO_TOP PTR_PD_RIGHT_TO_LEFT PTR_PD_TOP_TO_BOTTOM | |
| PageModeStation | R/W | ✓ PTR_S_RECEIPT | |
| PageModeVerticalPosition | R/W | ✓ 0(default) | |
| RotateSpecial | R/W | ✓ PTR_RP_NORMAL(default) PTR_RP_RIGHT90 PTR_RP_LEFT90 PTR_RP_ROTATE180 | |
| JrnLineChars | R/W | | Unsupported hardware |
| JrnLineCharsList | R | | Unsupported hardware |
| JrnLineHeight | R/W | | Unsupported hardware |
| JrnLineSpacing | R/W | | Unsupported hardware |
| JrnLineWidth | R | | Unsupported hardware |
| JrnLetterQuality | R/W | | Unsupported hardware |
| JrnEmpty | R | | Unsupported hardware |
| JrnNearEnd | R | | Unsupported hardware |
| JrnCartridgeState | R | PTR_CART_UNKNOWN | Unsupported hardware |
| JrnCurrentCartridge | R/W | | Unsupported hardware |
| RecBarCodeRotationList | R | ✓ 0, R90, L90, 180 | |
| RecBitmapRotationList | R | ✓ Raster bit image mode: 0,R90,L90,180 | |

| Property | Attribute | Status of support by the driver (CITIZEN PMU2300III *) | | Notes |
|------------------------|-----------|---|---|--|
| | | | NV bit image mode: 0,180 | |
| RecCartridgeState | R | | TR_CART_UNKNOWN | |
| RecCurrentCartridge | R/W | ✓ | PTR_COLOR_PRIMARY, PTR_COLOR_CUSTOM1 | |
| RecEmpty | R | ✓ | | |
| RecLetterQuality | R/W | | | Not supported |
| RecLineChars | R/W | ✓ | | Refer to 4.5.9 RecLineChars/ RecLineCharsList_Property |
| RecLineCharsList | R | ✓ | 80 mm paper "42,56,63" "48,64,72" | Refer to 4.5.9 RecLineChars/ RecLineCharsList_Property |
| RecLineHeight | R/W | ✓ | | The value is changed according to the RecLineChars property. |
| RecLineSpacing | R/W | ✓ | | Only if the value is smaller than RecLineHeight property, the value is changed in accordance with to the RecLineHeight property. |
| RecLinesToPaperCut | R | ✓ | | The value is changed according to the RecLineChars property. |
| RecLineWidth | R | ✓ | | The value is changed according to the RecLineChars property. |
| RecNearEnd | R | ✓ | | |
| RecSidewaysMaxLines | R | ✓ | | Refer to 4.5.11 RecSidewaysMaxLines_Property |
| RecSidewaysMaxChars | R | ✓ | | Refer to 4.5.10 RecSidewaysMaxChars_Property |
| SlpBarcodeRotationList | R | | | Unsupported hardware |
| SlpBitmapRotationList | R | | | Unsupported hardware |
| SlpCartridgeState | R | | PTR_CART_UNKNOWN | Unsupported hardware |
| SlpCurrentCartridge | R/W | | | Unsupported hardware |
| SlpEmpty | R | | | Unsupported hardware |
| SlpLetterQuality | R/W | | | Unsupported hardware |
| SlpLineChars | R/W | | | Unsupported hardware |
| SlpLineCharsList | R | | | Unsupported hardware |
| SlpLineHeight | R/W | | | Unsupported hardware |
| SlpLinesNearEndToEnd | R | | | Unsupported hardware |
| SlpLineSpacing | R/W | | | Unsupported hardware |
| SlpLineWidth | R | | | Unsupported hardware |
| SlpMaxLines | R | | | Unsupported hardware |
| SlpNearEnd | R | | | Unsupported hardware |
| SlpPrintSide | R | | PTR_PS_UNKNOWN | Unsupported hardware |
| SlpSidewaysMaxChars | R | | | Unsupported hardware |
| SlpSidewaysMaxLines | R | | | Unsupported hardware |

4.3. POS Printer Escape Sequence Relations

CT-D101

| Escape Sequence | | Status of support by the driver (CITIZEN D101 *) | | Notes |
|----------------------------|-------------|---|---|---|
| Paper cut | ESC #P | ✓ | Partial cut (1-99) Full cut (0,100) | |
| Feed and paper cut | ESC #fP | ✓ | Partial cut (1-99) Full cut (0,100) | |
| Feed, cut, and stamp print | ESC #sP | | Not supported | |
| Bitmap print | ESC #B | ✓ | 1-20 Specifies Bitmap number registered by the SetBItmap method. Printing is carried out in raster bit image or NV (Unuse key code), NV (Use key code) mode. | After Bitmap printing, print position returns to the initial state (left-justified). Refer to 4.5.4 setBItmap Method/ ESC #B Escape Sequence |
| Top logo print | ESC tL | ✓ | | |
| Bottom logo print | ESC bL | ✓ | | |
| Stamp print | ESC sL | | Not supported | |
| Multi-line feed | ESC #lF | ✓ | | |
| Unit feed | ESC #uF | ✓ | | |
| Reverse feed | ESC #rF | | Not supported | |
| BarCode print | ESC #R | ✓ | | Refer to 4.5.2 printBarCode Method/ ESC #R Escape Sequence |
| Font type specification | ESC #FT | ✓ | | |
| Bold | ESC bC | ✓ | | |
| Underline | ESC #u C | ✓ | | |
| Italic | ESC iC | | Not supported | |
| Custom color | ESC #rC | | Not supported | |
| Red | ESC rC | | Not supported | |
| Reverse character | ESC rvC | ✓ | | |
| Shaded character | ESC #sC | | Not supported | |
| Standard | ESC 1C | ✓ | | |
| Double width | ESC 2C | ✓ | | |
| Double height | ESC 3C | ✓ | | |
| Quadruple | ESC 4C | ✓ | | |
| Horizontal magnification | ESC #h C | ✓ | 1-8 | |
| Vertical magnification | ESC #vC | ✓ | 1-8 | |
| Color specification | ESC #fC | | Not supported | |
| Left adjustment | ESC lA | ✓ | | |
| Centering | ESC cA | ✓ | | |
| Right adjustment | ESC rA | ✓ | | |
| Normal | ESC N | ✓ | | |
| Subscript | ESC tbC | | Not supported | |
| Superscript | ESC tpC | | Not supported | |

CT-D150

| Escape Sequence | | Status of support by the driver (CITIZEN D150 *) | | Notes |
|----------------------------|-------------|---|---|---|
| Paper cut | ESC #P | ✓ | Partial cut (1-99) Full cut (0,100) | |
| Feed and paper cut | ESC #fP | ✓ | Partial cut (1-99) Full cut (0,100) | |
| Feed, cut, and stamp print | ESC #sP | | Not supported | |
| Bitmap print | ESC #B | ✓ | 1-20 Specifies Bitmap number registered by the SetBITmap method. Printing is carried out in raster bit image or NV (Unuse key code), NV (Use key code) mode. | After Bitmap printing, print position returns to the initial state (left-justified). Refer to 4.5.4 setBitmap Method/ ESC #B Escape Sequence |
| Top logo print | ESC tL | ✓ | | |
| Bottom logo print | ESC bL | ✓ | | |
| Stamp print | ESC sL | | Not supported | |
| Multi-line feed | ESC #lF | ✓ | | |
| Unit feed | ESC #uF | ✓ | | |
| Reverse feed | ESC #rF | | Not supported | |
| BarCode print | ESC #R | ✓ | | Refer to 4.5.2 printBarCode Method/ ESC #R Escape Sequence |
| Font type specification | ESC #fT | ✓ | | |
| Bold | ESC bC | ✓ | | |
| Underline | ESC #u C | ✓ | | |
| Italic | ESC iC | | Not supported | |
| Custom color | ESC #rC | | Not supported | |
| Red | ESC rC | | Not supported | |
| Reverse character | ESC rvC | ✓ | | |
| Shaded character | ESC #sC | | Not supported | |
| Standard | ESC 1C | ✓ | | |
| Double width | ESC 2C | ✓ | | |
| Double height | ESC 3C | ✓ | | |
| Quadruple | ESC 4C | ✓ | | |
| Horizontal magnification | ESC #h C | ✓ | 1-8 | |
| Vertical magnification | ESC #vC | ✓ | 1-8 | |
| Color specification | ESC #fC | | Not supported | |
| Left adjustment | ESC lA | ✓ | | |
| Centering | ESC cA | ✓ | | |
| Right adjustment | ESC rA | ✓ | | |
| Normal | ESC N | ✓ | | |
| Subscript | ESC tbC | | Not supported | |
| Superscript | ESC tpC | | Not supported | |

CT-D151

| Escape Sequence | | Status of support by the driver (CITIZEN D151 *) | | Notes |
|----------------------------|-------------|---|---|---|
| Paper cut | ESC #P | ✓ | Partial cut (1-99) Full cut (0,100) | |
| Feed and paper cut | ESC #fP | ✓ | Partial cut (1-99) Full cut (0,100) | |
| Feed, cut, and stamp print | ESC #sP | | Not supported | |
| Bitmap print | ESC #B | ✓ | 1-20 Specifies Bitmap number registered by the SetBITmap method. Printing is carried out in raster bit image or NV (Unuse key code), NV (Use key code) mode. | After Bitmap printing, print position returns to the initial state (left-justified). Refer to 4.5.4 setBitmap Method/ ESC #B Escape Sequence |
| Top logo print | ESC tL | ✓ | | |
| Bottom logo print | ESC bL | ✓ | | |
| Stamp print | ESC sL | | Not supported | |
| Multi-line feed | ESC #lF | ✓ | | |
| Unit feed | ESC #uF | ✓ | | |
| Reverse feed | ESC #rF | | Not supported | |
| BarCode print | ESC #R | ✓ | | Refer to 4.5.2 printBarCode Method/ ESC #R Escape Sequence |
| Font type specification | ESC #fT | ✓ | | |
| Bold | ESC bC | ✓ | | |
| Underline | ESC #u C | ✓ | | |
| Italic | ESC iC | | Not supported | |
| Custom color | ESC #rC | | Not supported | |
| Red | ESC rC | | Not supported | |
| Reverse character | ESC rvC | ✓ | | |
| Shaded character | ESC #sC | | Not supported | |
| Standard | ESC 1C | ✓ | | |
| Double width | ESC 2C | ✓ | | |
| Double height | ESC 3C | ✓ | | |
| Quadruple | ESC 4C | ✓ | | |
| Horizontal magnification | ESC #h C | ✓ | 1-8 | |
| Vertical magnification | ESC #vC | ✓ | 1-8 | |
| Color specification | ESC #fC | | Not supported | |
| Left adjustment | ESC lA | ✓ | | |
| Centering | ESC cA | ✓ | | |
| Right adjustment | ESC rA | ✓ | | |
| Normal | ESC N | ✓ | | |
| Subscript | ESC tbC | | Not supported | |
| Superscript | ESC tpC | | Not supported | |

CT-E301

| Escape Sequence | | Status of support by the driver (CITIZEN E301 *) | | Notes |
|----------------------------|-------------|---|---|---|
| Paper cut | ESC #P | ✓ | Partial cut (1-99) Full cut (0,100) | |
| Feed and paper cut | ESC #fP | ✓ | Partial cut (1-99) Full cut (0,100) | |
| Feed, cut, and stamp print | ESC #sP | | Not supported | |
| Bitmap print | ESC #B | ✓ | 1-20 Specifies Bitmap number registered by the SetBitmap method. Printing is carried out in raster bit image or NV (Unuse key code), NV (Use key code) mode. | After Bitmap printing, print position returns to the initial state (left-justified). Refer to 4.5.4 setBitmap Method/ ESC #B Escape Sequence |
| Top logo print | ESC tL | ✓ | | |
| Bottom logo print | ESC bL | ✓ | | |
| Stamp print | ESC sL | | Not supported | |
| Multi-line feed | ESC #lF | ✓ | | |
| Unit feed | ESC #uF | ✓ | | |
| Reverse feed | ESC #rF | | Not supported | |
| BarCode print | ESC #R | ✓ | | Refer to 4.5.2 printBarCode Method/ ESC #R Escape Sequence |
| Font type specification | ESC #fT | ✓ | | |
| Bold | ESC bC | ✓ | | |
| Underline | ESC #u C | ✓ | | |
| Italic | ESC iC | | Not supported | |
| Custom color | ESC #rC | | Not supported | |
| Red | ESC rC | | Not supported | |
| Reverse character | ESC rvC | ✓ | | |
| Shaded character | ESC #sC | | Not supported | |
| Standard | ESC 1C | ✓ | | |
| Double width | ESC 2C | ✓ | | |
| Double height | ESC 3C | ✓ | | |
| Quadruple | ESC 4C | ✓ | | |
| Horizontal magnification | ESC #h C | ✓ | 1-8 | |
| Vertical magnification | ESC #vC | ✓ | 1-8 | |
| Color specification | ESC #fC | | Not supported | |
| Left adjustment | ESC lA | ✓ | | |
| Centering | ESC cA | ✓ | | |
| Right adjustment | ESC rA | ✓ | | |
| Normal | ESC N | ✓ | | |
| Subscript | ESC tbC | | Not supported | |
| Superscript | ESC tpC | | Not supported | |

CT-E351

| Escape Sequence | | Status of support by the driver (CITIZEN E351 *) | | Notes |
|----------------------------|-------------|---|---|---|
| Paper cut | ESC #P | ✓ | Partial cut (1-99) Full cut (0,100) | |
| Feed and paper cut | ESC #fP | ✓ | Partial cut (1-99) Full cut (0,100) | |
| Feed, cut, and stamp print | ESC #sP | | Not supported | |
| Bitmap print | ESC #B | ✓ | 1-20 Specifies Bitmap number registered by the SetBitmap method. Printing is carried out in raster bit image or NV (Unuse key code), NV (Use key code) mode. | After Bitmap printing, print position returns to the initial state (left-justified). Refer to 4.5.4 setBitmap Method/ ESC #B Escape Sequence |
| Top logo print | ESC tL | ✓ | | |
| Bottom logo print | ESC bL | ✓ | | |
| Stamp print | ESC sL | | Not supported | |
| Multi-line feed | ESC #lF | ✓ | | |
| Unit feed | ESC #uF | ✓ | | |
| Reverse feed | ESC #rF | | Not supported | |
| BarCode print | ESC #R | ✓ | | Refer to 4.5.2 printBarCode Method/ ESC #R Escape Sequence |
| Font type specification | ESC #fT | ✓ | | |
| Bold | ESC bC | ✓ | | |
| Underline | ESC #u C | ✓ | | |
| Italic | ESC iC | | Not supported | |
| Custom color | ESC #rC | | Not supported | |
| Red | ESC rC | | Not supported | |
| Reverse character | ESC rvC | ✓ | | |
| Shaded character | ESC #sC | | Not supported | |
| Standard | ESC 1C | ✓ | | |
| Double width | ESC 2C | ✓ | | |
| Double height | ESC 3C | ✓ | | |
| Quadruple | ESC 4C | ✓ | | |
| Horizontal magnification | ESC #h C | ✓ | 1-8 | |
| Vertical magnification | ESC #vC | ✓ | 1-8 | |
| Color specification | ESC #fC | | Not supported | |
| Left adjustment | ESC lA | ✓ | | |
| Centering | ESC cA | ✓ | | |
| Right adjustment | ESC rA | ✓ | | |
| Normal | ESC N | ✓ | | |
| Subscript | ESC tbC | | Not supported | |
| Superscript | ESC tpC | | Not supported | |

CT-E601

| Escape Sequence | | Status of support by the driver (CITIZEN E601 *) | | Notes |
|----------------------------|-------------|---|---|---|
| Paper cut | ESC #P | ✓ | Partial cut (1-99) Full cut (0,100) | |
| Feed and paper cut | ESC #fP | ✓ | Partial cut (1-99) Full cut (0,100) | |
| Feed, cut, and stamp print | ESC #sP | | Not supported | |
| Bitmap print | ESC #B | ✓ | 1-20 Specifies Bitmap number registered by the SetBitmap method. Printing is carried out in raster bit image or NV (Unuse key code), NV (Use key code) mode. | After Bitmap printing, print position returns to the initial state (left-justified). Refer to 4.5.4 setBitmap Method/ ESC #B Escape Sequence |
| Top logo print | ESC tL | ✓ | | |
| Bottom logo print | ESC bL | ✓ | | |
| Stamp print | ESC sL | | Not supported | |
| Multi-line feed | ESC #lF | ✓ | | |
| Unit feed | ESC #uF | ✓ | | |
| Reverse feed | ESC #rF | | Not supported | |
| BarCode print | ESC #R | ✓ | | Refer to 4.5.2 printBarCode Method/ ESC #R Escape Sequence |
| Font type specification | ESC #fT | ✓ | | |
| Bold | ESC bC | ✓ | | |
| Underline | ESC #u C | ✓ | | |
| Italic | ESC iC | | Not supported | |
| Custom color | ESC #rC | | Not supported | |
| Red | ESC rC | | Not supported | |
| Reverse character | ESC rvC | ✓ | | |
| Shaded character | ESC #sC | | Not supported | |
| Standard | ESC 1C | ✓ | | |
| Double width | ESC 2C | ✓ | | |
| Double height | ESC 3C | ✓ | | |
| Quadruple | ESC 4C | ✓ | | |
| Horizontal magnification | ESC #h C | ✓ | 1-8 | |
| Vertical magnification | ESC #vC | ✓ | 1-8 | |
| Color specification | ESC #fC | | Not supported | |
| Left adjustment | ESC lA | ✓ | | |
| Centering | ESC cA | ✓ | | |
| Right adjustment | ESC rA | ✓ | | |
| Normal | ESC N | ✓ | | |
| Subscript | ESC tbC | | Not supported | |
| Superscript | ESC tpC | | Not supported | |

CT-E651

| Escape Sequence | | Status of support by the driver (CITIZEN E651 *) | | Notes |
|----------------------------|-------------|---|---|---|
| Paper cut | ESC #P | ✓ | Partial cut (1-99) Full cut (0,100) | |
| Feed and paper cut | ESC #fP | ✓ | Partial cut (1-99) Full cut (0,100) | |
| Feed, cut, and stamp print | ESC #sP | | Not supported | |
| Bitmap print | ESC #B | ✓ | 1-20 Specifies Bitmap number registered by the SetBITmap method. Printing is carried out in raster bit image or NV (Unuse key code), NV (Use key code) mode. | After Bitmap printing, print position returns to the initial state (left-justified). Refer to 4.5.4 setBitmap Method/ ESC #B Escape Sequence |
| Top logo print | ESC tL | ✓ | | |
| Bottom logo print | ESC bL | ✓ | | |
| Stamp print | ESC sL | | Not supported | |
| Multi-line feed | ESC #lF | ✓ | | |
| Unit feed | ESC #uF | ✓ | | |
| Reverse feed | ESC #rF | | Not supported | |
| BarCode print | ESC #R | ✓ | | Refer to 4.5.2 printBarCode Method/ ESC #R Escape Sequence |
| Font type specification | ESC #fT | ✓ | | |
| Bold | ESC bC | ✓ | | |
| Underline | ESC #u C | ✓ | | |
| Italic | ESC iC | | Not supported | |
| Custom color | ESC #rC | | Not supported | |
| Red | ESC rC | | Not supported | |
| Reverse character | ESC rvC | ✓ | | |
| Shaded character | ESC #sC | | Not supported | |
| Standard | ESC 1C | ✓ | | |
| Double width | ESC 2C | ✓ | | |
| Double height | ESC 3C | ✓ | | |
| Quadruple | ESC 4C | ✓ | | |
| Horizontal magnification | ESC #h C | ✓ | 1-8 | |
| Vertical magnification | ESC #vC | ✓ | 1-8 | |
| Color specification | ESC #fC | | Not supported | |
| Left adjustment | ESC lA | ✓ | | |
| Centering | ESC cA | ✓ | | |
| Right adjustment | ESC rA | ✓ | | |
| Normal | ESC N | ✓ | | |
| Subscript | ESC tbC | | Not supported | |
| Superscript | ESC tpC | | Not supported | |

CT-S251

| Escape Sequence | | Status of support by the driver (CITIZEN S251 *) | | Notes |
|----------------------------|-------------|---|---|---|
| Paper cut | ESC #P | ✓ | Partial cut (1-99) Full cut (0,100) | |
| Feed and paper cut | ESC #fP | ✓ | Partial cut (1-99) Full cut (0,100) | |
| Feed, cut, and stamp print | ESC #sP | | Not supported | |
| Bitmap print | ESC #B | ✓ | 1-20 Specifies Bitmap number registered by the SetBitmap method. Printing is carried out in raster bit image or NV (Unuse key code), NV (Use key code) mode. | After Bitmap printing, print position returns to the initial state (left-justified). Refer to 4.5.4 setBitmap Method/ ESC #B Escape Sequence , Refer to 4.5.16 Grayscale print |
| Top logo print | ESC tL | ✓ | | |
| Bottom logo print | ESC bL | ✓ | | |
| Stamp print | ESC sL | | Not supported | |
| Multi-line feed | ESC #lF | ✓ | | |
| Unit feed | ESC #uF | ✓ | | |
| Reverse feed | ESC #rF | | Not supported | |
| BarCode print | ESC #R | ✓ | | Refer to 4.5.2 printBarCode Method/ ESC #R Escape Sequence |
| Font type specification | ESC #fT | ✓ | | |
| Bold | ESC bC | ✓ | | |
| Underline | ESC #u C | ✓ | | |
| Italic | ESC iC | | Not supported | |
| Custom color | ESC #rC | | Not supported | |
| Red | ESC rC | | Not supported | |
| Reverse character | ESC rvC | ✓ | | |
| Shaded character | ESC #sC | | Not supported | |
| Standard | ESC 1C | ✓ | | |
| Double width | ESC 2C | ✓ | | |
| Double height | ESC 3C | ✓ | | |
| Quadruple | ESC 4C | ✓ | | |
| Horizontal magnification | ESC #h C | ✓ | 1-8 | |
| Vertical magnification | ESC #vC | ✓ | 1-8 | |
| Color specification | ESC #fC | | Not supported | |
| Left adjustment | ESC lA | ✓ | | |
| Centering | ESC cA | ✓ | | |
| Right adjustment | ESC rA | ✓ | | |
| Normal | ESC N | ✓ | | |
| Subscript | ESC tbC | | Not supported | |
| Superscript | ESC tpC | | Not supported | |

CT-S281

| Escape Sequence | | Status of support by the driver (CITIZEN S281 *) | | Notes |
|----------------------------|-------------|---|---|---|
| Paper cut | ESC #P | ✓ | Partial cut (1-99) Full cut (0,100) | |
| Feed and paper cut | ESC #FP | ✓ | Partial cut (1-99) Full cut (0,100) | |
| Feed, cut, and stamp print | ESC #sP | | Not supported | |
| Bitmap print | ESC #B | ✓ | 1-20 Specifies Bitmap number registered by the SetBitmap method. Printing is carried out in raster bit image or NV (Unuse key code) mode. | After Bitmap printing, print position returns to the initial state (left-justified). Refer to 4.5.4 setBitmap Method/ ESC #B Escape Sequence |
| Top logo print | ESC tL | ✓ | | |
| Bottom logo print | ESC bL | ✓ | | |
| Stamp print | ESC sL | | | |
| Multi-line feed | ESC #IF | ✓ | | |
| Unit feed | ESC #uF | ✓ | | |
| Reverse feed | ESC #rF | | Not supported | |
| BarCode print | ESC #R | ✓ | | Refer to 4.5.2 printBarCode Method/ ESC #R Escape Sequence |
| Font type specification | ESC #FT | ✓ | | |
| Bold | ESC bC | ✓ | | |
| Underline | ESC #u C | ✓ | | |
| Italic | ESC iC | | Not supported | |
| Custom color | ESC #rC | ✓ | | Effective only when dedicated 2-color paper is used. |
| Red | ESC rC | ✓ | | Effective only when dedicated 2-color paper is used. |
| Reverse character | ESC rvC | ✓ | | |
| Shaded character | ESC #sC | | Not supported | |
| Standard | ESC 1C | ✓ | | |
| Double width | ESC 2C | ✓ | | |
| Double height | ESC 3C | ✓ | | |
| Quadruple | ESC 4C | ✓ | | |
| Horizontal magnification | ESC #h C | ✓ | 1-8 | |
| Vertical magnification | ESC #vC | ✓ | 1-8 | |
| Color specification | ESC #fC | | Not supported | |
| Left adjustment | ESC lA | ✓ | | |
| Centering | ESC cA | ✓ | | |
| Right adjustment | ESC rA | ✓ | | |
| Normal | ESC N | ✓ | | |
| Subscript | ESC tbC | | Not supported | |
| Superscript | ESC tpC | | Not supported | |

CT-S310

| Escape Sequence | | Status of support by the driver (CITIZEN S310 *) | | Notes |
|----------------------------|-------------|---|---|---|
| Paper cut | ESC #P | ✓ | Partial cut (1-99) Full cut (0,100) | |
| Feed and paper cut | ESC #fP | ✓ | Partial cut (1-99) Full cut (0,100) | |
| Feed, cut, and stamp print | ESC #sP | | Not supported | |
| Bitmap print | ESC #B | ✓ | 1-20 Specifies Bitmap number registered by the SetBITmap method. Printing is carried out in raster bit image or NV (Unuse key code) mode. | After Bitmap printing, print position returns to the initial state (left-justified). Refer to 4.5.4 setBitmap Method/ ESC #B Escape Sequence |
| Top logo print | ESC tL | ✓ | | |
| Bottom logo print | ESC bL | ✓ | | |
| Stamp print | ESC sL | | Not supported | |
| Multi-line feed | ESC #lF | ✓ | | |
| Unit feed | ESC #uF | ✓ | | |
| Reverse feed | ESC #rF | | Not supported | |
| BarCode print | ESC #R | ✓ | | Refer to 4.5.2 printBarCode Method/ ESC #R Escape Sequence |
| Font type specification | ESC #fT | ✓ | | |
| Bold | ESC bC | ✓ | | |
| Underline | ESC #u C | ✓ | | |
| Italic | ESC iC | | Not supported | |
| Custom color | ESC #rC | ✓ | | Effective only when dedicated 2- color paper is used. |
| Red | ESC rC | ✓ | | Effective only when dedicated 2- color paper is used. |
| Reverse character | ESC rvC | ✓ | | |
| Shaded character | ESC #sC | | Not supported | |
| Standard | ESC 1C | ✓ | | |
| Double width | ESC 2C | ✓ | | |
| Double height | ESC 3C | ✓ | | |
| Quadruple | ESC 4C | ✓ | | |
| Horizontal magnification | ESC #h C | ✓ | 1-8 | |
| Vertical magnification | ESC #vC | ✓ | 1-8 | |
| Color specification | ESC #fC | | Not supported | |
| Left adjustment | ESC lA | ✓ | | |
| Centering | ESC cA | ✓ | | |
| Right adjustment | ESC rA | ✓ | | |
| Normal | ESC N | ✓ | | |
| Subscript | ESC tbC | | Not supported | |
| Superscript | ESC tpC | | Not supported | |

CT-S310II

| Escape Sequence | | Status of support by the driver (CITIZEN S310II *) | | Notes |
|----------------------------|-------------|---|---|---|
| Paper cut | ESC #P | ✓ | Partial cut (1-99) Full cut (0,100) | |
| Feed and paper cut | ESC #fP | ✓ | Partial cut (1-99) Full cut (0,100) | |
| Feed, cut, and stamp print | ESC #sP | | Not supported | |
| Bitmap print | ESC #B | ✓ | 1-20 Specifies Bitmap number registered by the SetBitmap method. Printing is carried out in raster bit image or NV (Unuse key code), NV (Use key code) mode. | After Bitmap printing, print position returns to the initial state (left-justified). Refer to 4.5.4 setBitmap Method/ ESC #B Escape Sequence |
| Top logo print | ESC tL | ✓ | | |
| Bottom logo print | ESC bL | ✓ | | |
| Stamp print | ESC sL | | Not supported | |
| Multi-line feed | ESC #IF | ✓ | | |
| Unit feed | ESC #uF | ✓ | | |
| Reverse feed | ESC #rF | | Not supported | |
| BarCode print | ESC #R | ✓ | | Refer to 4.5.2 printBarCode Method/ ESC #R Escape Sequence |
| Font type specification | ESC #FT | ✓ | | |
| Bold | ESC bC | ✓ | | |
| Underline | ESC #u C | ✓ | | |
| Italic | ESC iC | | Not supported | |
| Custom color | ESC #rC | | Not supported | |
| Red | ESC rC | | Not supported | |
| Reverse character | ESC rvC | ✓ | | |
| Shaded character | ESC #sC | | Not supported | |
| Standard | ESC 1C | ✓ | | |
| Double width | ESC 2C | ✓ | | |
| Double height | ESC 3C | ✓ | | |
| Quadruple | ESC 4C | ✓ | | |
| Horizontal magnification | ESC #h C | ✓ | 1-8 | |
| Vertical magnification | ESC #vC | ✓ | 1-8 | |
| Color specification | ESC #fC | | Not supported | |
| Left adjustment | ESC lA | ✓ | | |
| Centering | ESC cA | ✓ | | |
| Right adjustment | ESC rA | ✓ | | |
| Normal | ESC N | ✓ | | |
| Subscript | ESC tbC | | Not supported | |
| Superscript | ESC tpC | | Not supported | |

CT-S601/651/801/851

| Escape Sequence | | Status of support by the driver (CITIZEN S601 *, CITIZEN S651 *, CITIZEN S801 *, CITIZEN S851 *) | | Notes |
|----------------------------|-------------|--|---|---|
| Paper cut | ESC #P | ✓ | Partial cut (1-99) Full cut (0,100) | |
| Feed and paper cut | ESC #FP | ✓ | Partial cut (1-99) Full cut (0,100) | |
| Feed, cut, and stamp print | ESC #sP | | Not supported | |
| Bitmap print | ESC #B | ✓ | 1-20 Specifies Bitmap number registered by the SetBitmap method. Printing is carried out in raster bit image or NV (Unuse key code), NV (Use key code) mode. | After Bitmap printing, print position returns to the initial state (left-justified). Refer to 4.5.4 setBitmap Method/ ESC #B Escape Sequence |
| Top logo print | ESC tL | ✓ | | |
| Bottom logo print | ESC bL | ✓ | | |
| Stamp print | ESC sL | | Not supported | |
| Multi-line feed | ESC #IF | ✓ | | |
| Unit feed | ESC #uF | ✓ | | |
| Reverse feed | ESC #rF | | Not supported | |
| BarCode print | ESC #R | ✓ | | Refer to 4.5.2 printBarCode Method/ ESC #R Escape Sequence |
| Font type specification | ESC #FT | ✓ | | |
| Bold | ESC bC | ✓ | | |
| Underline | ESC #u C | ✓ | | |
| Italic | ESC iC | | Not supported | |
| Custom color | ESC #rC | ✓ | | Effective only when dedicated 2- color paper is used. |
| Red | ESC rC | ✓ | | Effective only when dedicated 2- color paper is used. |
| Reverse character | ESC rvC | ✓ | | |
| Shaded character | ESC #sC | | Not supported | |
| Standard | ESC 1C | ✓ | | |
| Double width | ESC 2C | ✓ | | |
| Double height | ESC 3C | ✓ | | |
| Quadruple | ESC 4C | ✓ | | |
| Horizontal magnification | ESC #h C | ✓ | 1-8 | |
| Vertical magnification | ESC #vC | ✓ | 1-8 | |
| Color specification | ESC #fC | | Not supported | |
| Left adjustment | ESC lA | ✓ | | |
| Centering | ESC cA | ✓ | | |
| Right adjustment | ESC rA | ✓ | | |
| Normal | ESC N | ✓ | | |
| Subscript | ESC tbC | | Not supported | |
| Superscript | ESC tpC | | Not supported | |

CT-S601II/651II/801II/851II

| Escape Sequence | | Status of support by the driver (CITIZEN S601II *, CITIZEN S651II *, CITIZEN S801II *, CITIZEN S851II *) | | Notes |
|----------------------------|-------------|--|---|--|
| Paper cut | ESC #P | ✓ | Partial cut (1-99) Full cut (0,100) | |
| Feed and paper cut | ESC #FP | ✓ | Partial cut (1-99) Full cut (0,100) | |
| Feed, cut, and stamp print | ESC #sP | | Not supported | |
| Bitmap print | ESC #B | ✓ | 1-20 Specifies Bitmap number registered by the SetBitmap method. Printing is carried out in raster bit image or NV (Unuse key code), NV (Use key code) mode. | After Bitmap printing, print position returns to the initial state (left-justified). Refer to 4.5.4 setBitmap Method/ ESC #B Escape Sequence, Refer to 4.5.16 Grayscale print |
| Top logo print | ESC tL | ✓ | | |
| Bottom logo print | ESC bL | ✓ | | |
| Stamp print | ESC sL | | Not supported | |
| Multi-line feed | ESC #IF | ✓ | | |
| Unit feed | ESC #uF | ✓ | | |
| Reverse feed | ESC #rF | | Not supported | |
| BarCode print | ESC #R | ✓ | | Refer to 4.5.2 printBarCode Method/ ESC #R Escape Sequence |
| Font type specification | ESC #fT | ✓ | | |
| Bold | ESC bC | ✓ | | |
| Underline | ESC #u C | ✓ | | |
| Italic | ESC iC | | Not supported | |
| Custom color | ESC #rC | ✓ | | Effective only when dedicated 2- color paper is used. |
| Red | ESC rC | ✓ | | Effective only when dedicated 2- color paper is used. |
| Reverse character | ESC rvC | ✓ | | |
| Shaded character | ESC #sC | | Not supported | |
| Standard | ESC 1C | ✓ | | |
| Double width | ESC 2C | ✓ | | |
| Double height | ESC 3C | ✓ | | |
| Quadruple | ESC 4C | ✓ | | |
| Horizontal magnification | ESC #h C | ✓ | 1-8 | |
| Vertical magnification | ESC #vC | ✓ | 1-8 | |
| Color specification | ESC #fC | | Not supported | |
| Left adjustment | ESC lA | ✓ | | |
| Centering | ESC cA | ✓ | | |
| Right adjustment | ESC rA | ✓ | | |
| Normal | ESC N | ✓ | | |
| Subscript | ESC tbC | | Not supported | |
| Superscript | ESC tpC | | Not supported | |

CT-S801III/851III

| Escape Sequence | | Status of support by the driver (CITIZEN S801III *, CITIZEN S851III *) | | Notes |
|----------------------------|-------------|---|--|---|
| Paper cut | ESC #P | ✓ | Partial cut (1-99) Full cut (0,100) | |
| Feed and paper cut | ESC #FP | ✓ | Partial cut (1-99) Full cut (0,100) | |
| Feed, cut, and stamp print | ESC #sP | | Not supported | |
| Bitmap print | ESC #B | ✓ | 1-20 Specifies Bitmap number registered by the SetBItmap method. Printing is carried out in raster bit image or NV (Unuse key code), NV (Use key code) mode. | After Bitmap printing, print position returns to the initial state (left-justified). Refer to 4.5.4 setBitmap Method/ ESC #B Escape Sequence , Refer to 4.5.16 Grayscale print |
| Top logo print | ESC tL | ✓ | | |
| Bottom logo print | ESC bL | ✓ | | |
| Stamp print | ESC sL | | Not supported | |
| Multi-line feed | ESC #IF | ✓ | | |
| Unit feed | ESC #uF | ✓ | | |
| Reverse feed | ESC #rF | | Not supported | |
| BarCode print | ESC #R | ✓ | | Refer to 4.5.2 printBarCode Method/ ESC #R Escape Sequence |
| Font type specification | ESC #fT | ✓ | | |
| Bold | ESC bC | ✓ | | |
| Underline | ESC #u C | ✓ | | |
| Italic | ESC iC | | Not supported | |
| Custom color | ESC #rC | ✓ | | Effective only when dedicated 2-color paper is used. |
| Red | ESC rC | ✓ | | Effective only when dedicated 2-color paper is used. |
| Reverse character | ESC rvC | ✓ | | |
| Shaded character | ESC #sC | | Not supported | |
| Standard | ESC 1C | ✓ | | |
| Double width | ESC 2C | ✓ | | |
| Double height | ESC 3C | ✓ | | |
| Quadruple | ESC 4C | ✓ | | |
| Horizontal magnification | ESC #h C | ✓ | 1-8 | |
| Vertical magnification | ESC #vC | ✓ | 1-8 | |
| Color specification | ESC #fC | | Not supported | |
| Left adjustment | ESC IA | ✓ | | |
| Centering | ESC cA | ✓ | | |
| Right adjustment | ESC rA | ✓ | | |
| Normal | ESC N | ✓ | | |
| Subscript | ESC tbC | | Not supported | |
| Superscript | ESC tpC | | Not supported | |

CT-S751

| Escape Sequence | | Status of support by the driver (CITIZEN S751 *) | | Notes |
|----------------------------|-------------|---|---|---|
| Paper cut | ESC #P | ✓ | Partial cut (1-99) Full cut (0,100) | |
| Feed and paper cut | ESC #fP | ✓ | Partial cut (1-99) Full cut (0,100) | |
| Feed, cut, and stamp print | ESC #sP | | Not supported | |
| Bitmap print | ESC #B | ✓ | 1-20 Specifies Bitmap number registered by the SetBITmap method. Printing is carried out in raster bit image or NV (Unuse key code), NV (Use key code) mode. | After Bitmap printing, print position returns to the initial state (left-justified). Refer to 4.5.4 setBitmap Method/ ESC #B Escape Sequence |
| Top logo print | ESC tL | ✓ | | |
| Bottom logo print | ESC bL | ✓ | | |
| Stamp print | ESC sL | | Not supported | |
| Multi-line feed | ESC #lF | ✓ | | |
| Unit feed | ESC #uF | ✓ | | |
| Reverse feed | ESC #rF | | Not supported | |
| BarCode print | ESC #R | ✓ | | Refer to 4.5.2 printBarCode Method/ ESC #R Escape Sequence |
| Font type specification | ESC #fT | ✓ | | |
| Bold | ESC bC | ✓ | | |
| Underline | ESC #u C | ✓ | | |
| Italic | ESC iC | | Not supported | |
| Custom color | ESC #rC | | Not supported | |
| Red | ESC rC | | Not supported | |
| Reverse character | ESC rvC | ✓ | | |
| Shaded character | ESC #sC | | Not supported | |
| Standard | ESC 1C | ✓ | | |
| Double width | ESC 2C | ✓ | | |
| Double height | ESC 3C | ✓ | | |
| Quadruple | ESC 4C | ✓ | | |
| Horizontal magnification | ESC #h C | ✓ | 1-8 | |
| Vertical magnification | ESC #vC | ✓ | 1-8 | |
| Color specification | ESC #fC | | Not supported | |
| Left adjustment | ESC lA | ✓ | | |
| Centering | ESC cA | ✓ | | |
| Right adjustment | ESC rA | ✓ | | |
| Normal | ESC N | ✓ | | |
| Subscript | ESC tbC | | Not supported | |
| Superscript | ESC tpC | | Not supported | |

CT-S2000

| Escape Sequence | | Status of support by the driver (CITIZEN S2000 *) | | Notes |
|----------------------------|-------------|--|---|---|
| Paper cut | ESC #P | ✓ | Partial cut (1-99) Full cut (0,100) | |
| Feed and paper cut | ESC #fP | ✓ | Partial cut (1-99) Full cut (0,100) | |
| Feed, cut, and stamp print | ESC #sP | | Not supported | |
| Bitmap print | ESC #B | ✓ | 1-20 Specifies Bitmap number registered by the SetBITmap method. Printing is carried out in raster bit image or NV (Unuse key code), NV (Use key code) mode. | After Bitmap printing, print position returns to the initial state (left-justified). Refer to 4.5.4 setBitmap Method/ ESC #B Escape Sequence |
| Top logo print | ESC tL | ✓ | | |
| Bottom logo print | ESC bL | ✓ | | |
| Stamp print | ESC sL | | Not supported | |
| Multi-line feed | ESC #lF | ✓ | | |
| Unit feed | ESC #uF | ✓ | | |
| Reverse feed | ESC #rF | | Not supported | |
| BarCode print | ESC #R | ✓ | | Refer to 4.5.2 printBarCode Method/ ESC #R Escape Sequence |
| Font type specification | ESC #fT | ✓ | | |
| Bold | ESC bC | ✓ | | |
| Underline | ESC #u C | ✓ | | |
| Italic | ESC iC | | Not supported | |
| Custom color | ESC #rC | ✓ | | Effective only when dedicated 2-color paper is used. |
| Red | ESC rC | ✓ | | Effective only when dedicated 2-color paper is used. |
| Reverse character | ESC rvC | ✓ | | |
| Shaded character | ESC #sC | | Not supported | |
| Standard | ESC 1C | ✓ | | |
| Double width | ESC 2C | ✓ | | |
| Double height | ESC 3C | ✓ | | |
| Quadruple | ESC 4C | ✓ | | |
| Horizontal magnification | ESC #h C | ✓ | 1-8 | |
| Vertical magnification | ESC #vC | ✓ | 1-8 | |
| Color specification | ESC #fC | | Not supported | |
| Left adjustment | ESC lA | ✓ | | |
| Centering | ESC cA | ✓ | | |
| Right adjustment | ESC rA | ✓ | | |
| Normal | ESC N | ✓ | | |
| Subscript | ESC tbC | | Not supported | |
| Superscript | ESC tpC | | Not supported | |

CT-S4000

| Escape Sequence | | Status of support by the driver (CITIZEN S4000 *) | | Notes |
|----------------------------|-------------|--|---|---|
| Paper cut | ESC #P | ✓ | Partial cut (1-99) Full cut (0,100) | |
| Feed and paper cut | ESC #fP | ✓ | Partial cut (1-99) Full cut (0,100) | |
| Feed, cut, and stamp print | ESC #sP | | Not supported | |
| Bitmap print | ESC #B | ✓ | 1-20 Specifies Bitmap number registered by the SetBITmap method. Printing is carried out in raster bit image or NV (Unuse key code), NV (Use key code) mode. | After Bitmap printing, print position returns to the initial state (left-justified). Refer to 4.5.4 setBitmap Method/ ESC #B Escape Sequence |
| Top logo print | ESC tL | ✓ | | |
| Bottom logo print | ESC bL | ✓ | | |
| Stamp print | ESC sL | | Not supported | |
| Multi-line feed | ESC #lF | ✓ | | |
| Unit feed | ESC #uF | ✓ | | |
| Reverse feed | ESC #rF | | Not supported | |
| BarCode print | ESC #R | ✓ | | Refer to 4.5.2 printBarCode Method/ ESC #R Escape Sequence |
| Font type specification | ESC #fT | ✓ | | |
| Bold | ESC bC | ✓ | | |
| Underline | ESC #u C | ✓ | | |
| Italic | ESC iC | | Not supported | |
| Custom color | ESC #rC | ✓ | | Effective only when dedicated 2-color paper is used. |
| Red | ESC rC | ✓ | | Effective only when dedicated 2-color paper is used. |
| Reverse character | ESC rvC | ✓ | | |
| Shaded character | ESC #sC | | Not supported | |
| Standard | ESC 1C | ✓ | | |
| Double width | ESC 2C | ✓ | | |
| Double height | ESC 3C | ✓ | | |
| Quadruple | ESC 4C | ✓ | | |
| Horizontal magnification | ESC #h C | ✓ | 1-8 | |
| Vertical magnification | ESC #vC | ✓ | 1-8 | |
| Color specification | ESC #fC | | Not supported | |
| Left adjustment | ESC lA | ✓ | | |
| Centering | ESC cA | ✓ | | |
| Right adjustment | ESC rA | ✓ | | |
| Normal | ESC N | ✓ | | |
| Subscript | ESC tbC | | Not supported | |
| Superscript | ESC tpC | | Not supported | |

CT-S4500

| Escape Sequence | | Status of support by the driver (CITIZEN S4500 *) | | Notes |
|----------------------------|-------------|--|---|---|
| Paper cut | ESC #P | ✓ | Partial cut (1-99) Full cut (0,100) | |
| Feed and paper cut | ESC #fP | ✓ | Partial cut (1-99) Full cut (0,100) | |
| Feed, cut, and stamp print | ESC #sP | | Not supported | |
| Bitmap print | ESC #B | ✓ | 1-20 Specifies Bitmap number registered by the SetBITmap method. Printing is carried out in raster bit image or NV (Unuse key code), NV (Use key code) mode. | After Bitmap printing, print position returns to the initial state (left-justified). Refer to 4.5.4 setBitmap Method/ ESC #B Escape Sequence |
| Top logo print | ESC tL | ✓ | | |
| Bottom logo print | ESC bL | ✓ | | |
| Stamp print | ESC sL | | Not supported | |
| Multi-line feed | ESC #lF | ✓ | | |
| Unit feed | ESC #uF | ✓ | | |
| Reverse feed | ESC #rF | | Not supported | |
| BarCode print | ESC #R | ✓ | | Refer to 4.5.2 printBarCode Method/ ESC #R Escape Sequence |
| Font type specification | ESC #fT | ✓ | | |
| Bold | ESC bC | ✓ | | |
| Underline | ESC #u C | ✓ | | |
| Italic | ESC iC | | Not supported | |
| Custom color | ESC #rC | | Not supported | |
| Red | ESC rC | | Not supported | |
| Reverse character | ESC rvC | ✓ | | |
| Shaded character | ESC #sC | | Not supported | |
| Standard | ESC 1C | ✓ | | |
| Double width | ESC 2C | ✓ | | |
| Double height | ESC 3C | ✓ | | |
| Quadruple | ESC 4C | ✓ | | |
| Horizontal magnification | ESC #h C | ✓ | 1-8 | |
| Vertical magnification | ESC #vC | ✓ | 1-8 | |
| Color specification | ESC #fC | | Not supported | |
| Left adjustment | ESC lA | ✓ | | |
| Centering | ESC cA | ✓ | | |
| Right adjustment | ESC rA | ✓ | | |
| Normal | ESC N | ✓ | | |
| Subscript | ESC tbC | | Not supported | |
| Superscript | ESC tpC | | Not supported | |

PMU2300III

| Escape Sequence | | Status of support by the driver (CITIZEN PMU2300III *) | | Notes |
|----------------------------|-------------|---|--|---|
| Paper cut | ESC #P | ✓ | Partial cut (1-99) Full cut (0,100) | |
| Feed and paper cut | ESC #fP | ✓ | Partial cut (1-99) Full cut (0,100) | |
| Feed, cut, and stamp print | ESC #sP | | Not supported | |
| Bitmap print | ESC #B | ✓ | 1-20 Specifies Bitmap number registered by the SetBITmap method. Printing is carried out in raster bit image or NV (Unuse key code) mode. | After Bitmap printing, print position returns to the initial state (left-justified). Refer to 4.5.4 setBitmap Method/ ESC #B Escape Sequence |
| Top logo print | ESC tL | ✓ | | |
| Bottom logo print | ESC bL | ✓ | | |
| Stamp print | ESC sL | | Not supported | |
| Multi-line feed | ESC #lF | ✓ | | |
| Unit feed | ESC #uF | ✓ | | |
| Reverse feed | ESC #rF | | Not supported | |
| BarCode print | ESC #R | ✓ | | Refer to 4.5.2 printBarCode Method/ ESC #R Escape Sequence |
| Font type specification | ESC #fT | ✓ | | |
| Bold | ESC bC | ✓ | | |
| Underline | ESC #u C | ✓ | | |
| Italic | ESC iC | | Not supported | |
| Custom color | ESC #rC | ✓ | | Effective only when dedicated 2- color paper is used. |
| Red | ESC rC | ✓ | | Effective only when dedicated 2- color paper is used. |
| Reverse character | ESC rvC | ✓ | | |
| Shaded character | ESC #sC | | Not supported | |
| Standard | ESC 1C | ✓ | | |
| Double width | ESC 2C | ✓ | | |
| Double height | ESC 3C | ✓ | | |
| Quadruple | ESC 4C | ✓ | | |
| Horizontal magnification | ESC #h C | ✓ | 1-8 | |
| Vertical magnification | ESC #vC | ✓ | 1-8 | |
| Color specification | ESC #fC | | Not supported | |
| Left adjustment | ESC lA | ✓ | | |
| Centering | ESC cA | ✓ | | |
| Right adjustment | ESC rA | ✓ | | |
| Normal | ESC N | ✓ | | |
| Subscript | ESC tbC | | Not supported | |
| Superscript | ESC tpC | | Not supported | |

PMU3300

| Escape Sequence | | Status of support by the driver (CITIZEN PMU2300III *) | | Notes |
|----------------------------|-------------|---|--|---|
| Paper cut | ESC #P | ✓ | Partial cut (1-99) Full cut (0,100) | |
| Feed and paper cut | ESC #fP | ✓ | Partial cut (1-99) Full cut (0,100) | |
| Feed, cut, and stamp print | ESC #sP | | Not supported | |
| Bitmap print | ESC #B | ✓ | 1-20 Specifies Bitmap number registered by the SetBITmap method. Printing is carried out in raster bit image or NV (Unuse key code) mode. | After Bitmap printing, print position returns to the initial state (left-justified). Refer to 4.5.4 setBitmap Method/ ESC #B Escape Sequence |
| Top logo print | ESC tL | ✓ | | |
| Bottom logo print | ESC bL | ✓ | | |
| Stamp print | ESC sL | | Not supported | |
| Multi-line feed | ESC #lF | ✓ | | |
| Unit feed | ESC #uF | ✓ | | |
| Reverse feed | ESC #rF | | Not supported | |
| BarCode print | ESC #R | ✓ | | Refer to 4.5.2 printBarCode Method/ ESC #R Escape Sequence |
| Font type specification | ESC #fT | ✓ | | |
| Bold | ESC bC | ✓ | | |
| Underline | ESC #u C | ✓ | | |
| Italic | ESC iC | | Not supported | |
| Custom color | ESC #rC | ✓ | | Effective only when dedicated 2- color paper is used. |
| Red | ESC rC | ✓ | | Effective only when dedicated 2- color paper is used. |
| Reverse character | ESC rvC | ✓ | | |
| Shaded character | ESC #sC | | Not supported | |
| Standard | ESC 1C | ✓ | | |
| Double width | ESC 2C | ✓ | | |
| Double height | ESC 3C | ✓ | | |
| Quadruple | ESC 4C | ✓ | | |
| Horizontal magnification | ESC #h C | ✓ | 1-8 | |
| Vertical magnification | ESC #vC | ✓ | 1-8 | |
| Color specification | ESC #fC | | Not supported | |
| Left adjustment | ESC lA | ✓ | | |
| Centering | ESC cA | ✓ | | |
| Right adjustment | ESC rA | ✓ | | |
| Normal | ESC N | ✓ | | |
| Subscript | ESC tbC | | Not supported | |
| Superscript | ESC tpC | | Not supported | |

4.4. POS Printer Event Relations

CT-D101

| Event | Status of support by the driver (CITIZEN D101 *) | | Notes |
|---------------------|---|--------------------------------|---|
| DataEvent | | Not applicable with POSPrinter | |
| DirectIOEvent | | Not supported | |
| ErrorEvent | ✓ | | |
| OutputCompleteEvent | ✓ | Increment (+1) | Refer to 4.5.8 OutputID Property/ OutputCompleteEvent Event |
| StatusUpdateEvent | ✓ | | |

CT-D150

| Event | Status of support by the driver (CITIZEN D150 *) | | Notes |
|---------------------|---|--------------------------------|---|
| DataEvent | | Not applicable with POSPrinter | |
| DirectIOEvent | | Not supported | |
| ErrorEvent | ✓ | | |
| OutputCompleteEvent | ✓ | Increment (+1) | Refer to 4.5.8 OutputID Property/ OutputCompleteEvent Event |
| StatusUpdateEvent | ✓ | | |

CT-D151

| Event | Status of support by the driver (CITIZEN D151 *) | | Notes |
|---------------------|---|--------------------------------|---|
| DataEvent | | Not applicable with POSPrinter | |
| DirectIOEvent | | Not supported | |
| ErrorEvent | ✓ | | |
| OutputCompleteEvent | ✓ | Increment (+1) | Refer to 4.5.8 OutputID Property/ OutputCompleteEvent Event |
| StatusUpdateEvent | ✓ | | |

CT-E301

| Event | Status of support by the driver (CITIZEN E301 *) | | Notes |
|---------------------|---|--------------------------------|---|
| DataEvent | | Not applicable with POSPrinter | |
| DirectIOEvent | | Not supported | |
| ErrorEvent | ✓ | | |
| OutputCompleteEvent | ✓ | Increment (+1) | Refer to 4.5.8 OutputID Property/ OutputCompleteEvent Event |
| StatusUpdateEvent | ✓ | | |

CT-E351

| Event | Status of support by the driver (CITIZEN E351 *) | | Notes |
|---------------------|---|--------------------------------|---|
| DataEvent | | Not applicable with POSPrinter | |
| DirectIOEvent | | Not supported | |
| ErrorEvent | ✓ | | |
| OutputCompleteEvent | ✓ | Increment (+1) | Refer to 4.5.8 OutputID Property/ OutputCompleteEvent Event |
| StatusUpdateEvent | ✓ | | |

CT-E601

| Event | Status of support by the driver (CITIZEN E601 *) | | Notes |
|---------------------|---|--------------------------------|---|
| DataEvent | | Not applicable with POSPrinter | |
| DirectIOEvent | | Not supported | |
| ErrorEvent | ✓ | | |
| OutputCompleteEvent | ✓ | Increment (+1) | Refer to 4.5.8 OutputID Property/ OutputCompleteEvent Event |
| StatusUpdateEvent | ✓ | | |

CT-E651

| Event | Status of support by the driver (CITIZEN E651 *) | | Notes |
|---------------------|---|--------------------------------|---|
| DataEvent | | Not applicable with POSPrinter | |
| DirectIOEvent | | Not supported | |
| ErrorEvent | ✓ | | |
| OutputCompleteEvent | ✓ | Increment (+1) | Refer to 4.5.8 OutputID Property/ OutputCompleteEvent Event |
| StatusUpdateEvent | ✓ | | |

CT-S251

| Event | Status of support by the driver (CITIZEN S251 *) | | Notes |
|---------------------|---|--------------------------------|---|
| DataEvent | | Not applicable with POSPrinter | |
| DirectIOEvent | | Not supported | |
| ErrorEvent | ✓ | | |
| OutputCompleteEvent | ✓ | Increment (+1) | Refer to 4.5.8 OutputID Property/ OutputCompleteEvent Event |
| StatusUpdateEvent | ✓ | | |

CT-S281

| Event | Status of support by the driver (CITIZEN S281 *) | | Notes |
|---------------------|---|--------------------------------|---|
| DataEvent | | Not applicable with POSPrinter | |
| DirectIOEvent | | Not supported | |
| ErrorEvent | ✓ | | |
| OutputCompleteEvent | ✓ | Increment (+1) | Refer to 4.5.8 OutputID Property/ OutputCompleteEvent Event |
| StatusUpdateEvent | ✓ | | |

CT-S310

| Event | Status of support by the driver (CITIZEN S310 *) | | Notes |
|---------------------|---|--------------------------------|---|
| DataEvent | | Not applicable with POSPrinter | |
| DirectIOEvent | | Not supported | |
| ErrorEvent | ✓ | | |
| OutputCompleteEvent | ✓ | Increment (+1) | Refer to 4.5.8 OutputID Property/ OutputCompleteEvent Event |
| StatusUpdateEvent | ✓ | | |

CT-S310II

| Event | Status of support by the driver (CITIZEN S310II *) | | Notes |
|---------------------|---|--------------------------------|---|
| DataEvent | | Not applicable with POSPrinter | |
| DirectIOEvent | | Not supported | |
| ErrorEvent | ✓ | | |
| OutputCompleteEvent | ✓ | Increment (+1) | Refer to 4.5.8 OutputID Property/ OutputCompleteEvent Event |
| StatusUpdateEvent | ✓ | | |

CT-S601/651/801/851

| Event | Status of support by the driver (CITIZEN S601 *, CITIZEN S651 *, CITIZEN S801 *, CITIZEN S851 *) | | Notes |
|---------------------|--|--------------------------------|---|
| DataEvent | | Not applicable with POSPrinter | |
| DirectIOEvent | | Not supported | |
| ErrorEvent | ✓ | | |
| OutputCompleteEvent | ✓ | Increment (+1) | Refer to 4.5.8 OutputID Property/ OutputCompleteEvent Event |
| StatusUpdateEvent | ✓ | | |

CT-S601II/651II/801II/851II

| Event | Status of support by the driver (CITIZEN S601II *, CITIZEN S651II *, CITIZEN S801II *, CITIZEN S851II *) | | Notes |
|---------------------|--|--------------------------------|---|
| DataEvent | | Not applicable with POSPrinter | |
| DirectIOEvent | | Not supported | |
| ErrorEvent | ✓ | | |
| OutputCompleteEvent | ✓ | Increment (+1) | Refer to 4.5.8 OutputID Property/ OutputCompleteEvent Event |
| StatusUpdateEvent | ✓ | | |

CT-S801III/851III

| Event | Status of support by the driver (CITIZEN S801III *, CITIZEN S851III *) | | Notes |
|---------------------|---|--------------------------------|---|
| DataEvent | | Not applicable with POSPrinter | |
| DirectIOEvent | | Not supported | |
| ErrorEvent | ✓ | | |
| OutputCompleteEvent | ✓ | Increment (+1) | Refer to 4.5.8 OutputID Property/ OutputCompleteEvent Event |
| StatusUpdateEvent | ✓ | | |

CT-S751

| Event | Status of support by the driver (CITIZEN S751 *) | | Notes |
|---------------------|---|--------------------------------|---|
| DataEvent | | Not applicable with POSPrinter | |
| DirectIOEvent | | Not supported | |
| ErrorEvent | ✓ | | |
| OutputCompleteEvent | ✓ | Increment (+1) | Refer to 4.5.8 OutputID Property/ OutputCompleteEvent Event |
| StatusUpdateEvent | ✓ | | |

CT-S2000

| Event | Status of support by the driver (CITIZEN S2000 *) | | Notes |
|---------------------|--|--------------------------------|---|
| DataEvent | | Not applicable with POSPrinter | |
| DirectIOEvent | | Not supported | |
| ErrorEvent | ✓ | | |
| OutputCompleteEvent | ✓ | Increment (+1) | Refer to 4.5.8 OutputID Property/ OutputCompleteEvent Event |
| StatusUpdateEvent | ✓ | | |

CT-S4000

| Event | Status of support by the driver (CITIZEN S4000 *) | | Notes |
|---------------------|--|--------------------------------|---|
| DataEvent | | Not applicable with POSPrinter | |
| DirectIOEvent | | Not supported | |
| ErrorEvent | ✓ | | |
| OutputCompleteEvent | ✓ | Increment (+1) | Refer to 4.5.8 OutputID Property/ OutputCompleteEvent Event |
| StatusUpdateEvent | ✓ | | |

CT-S4500

| Event | Status of support by the driver (CITIZEN S4500 *) | | Notes |
|---------------------|--|--------------------------------|---|
| DataEvent | | Not applicable with POSPrinter | |
| DirectIOEvent | | Not supported | |
| ErrorEvent | ✓ | | |
| OutputCompleteEvent | ✓ | Increment (+1) | Refer to 4.5.8 OutputID Property/ OutputCompleteEvent Event |
| StatusUpdateEvent | ✓ | | |

PMU2300III

| Event | Status of support by the driver (CITIZEN PMU2300III *) | | Notes |
|---------------------|---|--------------------------------|---|
| DataEvent | | Not applicable with POSPrinter | |
| DirectIOEvent | | Not supported | |
| ErrorEvent | ✓ | | |
| OutputCompleteEvent | ✓ | Increment (+1) | Refer to 4.5.8 OutputID Property/ OutputCompleteEvent Event |
| StatusUpdateEvent | ✓ | | |

PMU3300

| Event | Status of support by the driver (CITIZEN PMU2300III *) | | Notes |
|---------------------|---|--------------------------------|---|
| DataEvent | | Not applicable with POSPrinter | |
| DirectIOEvent | | Not supported | |
| ErrorEvent | ✓ | | |
| OutputCompleteEvent | ✓ | Increment (+1) | Refer to 4.5.8 OutputID Property/ OutputCompleteEvent Event |
| StatusUpdateEvent | ✓ | | |

4.5. POS Printer Precautions

4.5.1 Claim Method

The PosControlException exception occurs under the condition below, the following CITIZEN-extended error code is stored in ErrorCode and ErrorCodeExtended.

| Condition | ErrorCode | ErrorCodeExtended |
|---|----------------|-------------------|
| A device other than a CITIZEN printer is connected | JPOS_E_ILLEGAL | 60001 |
| There is no response from the printer and the communication cannot be established (1) The printer is not connected (2) The printer is not powered on (3) The handle of the interface port cannot be obtained | JPOS_E_ILLEGAL | 60002 |
| The printer is connected, but the following error has occurred (1) The auto-cutter error has occurred due to a paper jam (2) A non-recoverable error has occurred due to circuit failure | JPOS_E_ILLEGAL | 60003 |
| The status feature of the Windows printer driver is enabled ("Enable bi-directional support" is on in the Port setting) | JPOS_E_ILLEGAL | 60004 |
| The printer is connected, but the cover opened error has occurred. | JPOS_E_ILLEGAL | 60005 |
| The printer is connected, but the no paper error has occurred. | JPOS_E_ILLEGAL | 60006 |

4.5.2 printBarCode Method / ESC | #R Escape Sequence

- Supported barcodes

PTR_BCS_UPCA, PTR_BCS_UPCE, PTR_BCS_EAN8, PTR_BCS_JAN8, PTR_BCS_EAN13, PTR_BCS_JAN13, PTR_BCS_ITF, PTR_BCS_CODABAR, PTR_BCS_CODE39, PTR_BCS_CODE93, PTR_BCS_CODE128, PTR_BCS_CODE128_PARSED, PTR_BCS_QRCODE, PTR_BCS_PDF417, PTR_BCS_GS1DATABAR, PTR_BCS_GS1DATABAR_S, PTR_BCS_GS1DATABAR_E, PTR_BCS_GS1DATABAR_E_S

- About UPC-E barcode printing

This printer compresses the 11- or 12-digit data entered to 8-digit data by using the zero suppression method of UPC-E standard. The following is an example of data compression using zero suppression method.

Ex: Set the original code to be "0-ABCDE-VWXYZ" (11 digits). Printable patterns are as follows:

1) When all V through Y are "0"

"0-ABCDE-0000Z": Denotes "ABCDEZ", where Z is any of 5 through 9.

2) When E and VWXY are all "0"

"0-ABCD0-0000Z": Denotes "ABCDZ4". The last 4 indicates that A and D of manufacturer code is not "0".

3) When DE and VWX are "0"

"0-ABC00-000YZ": Denotes "ABCYZ3". The last 3 indicates that A and C are not "0" but ABC is

a number of 3 digits.

4) When DE and VW are "0" and C is "0", "1", or "2":

- i) When C = "0": "0-AB000-00XYZ" -> "ABXYZ0"
- ii) When C = "1": "0-AB100-00XYZ" -> "ABXYZ1"
- iii) When C = "2": "0-AB200-00XYZ" -> "ABXYZ2"

The check digit is automatically calculated in the printer. When a condition other than the above is specified and executed, error (JPOS_E_ILLEGAL) is returned because the printer cannot print due to its specification requirement.

- Printing GS1 DataBar barcode

In the support model, GS1 DataBar barcode can be printed.

| Support model | Firmware Version |
|-----------------------------|--------------------|
| CT-D101 | All version |
| CT-D150 | |
| CT-D151 | |
| CT-E301 | |
| CT-E351 | |
| CT-E601 | |
| CT-E651 | |
| CT-S251 | |
| CT-S601II/651II/801II/851II | |
| CT-S801III/851III | |
| CT-S751 | |
| CT-S4500 | |
| CT-S310II | |
| CT-S601 | DT00-0400 or newer |
| CT-S651 | DL00-2000 or newer |
| CT-S801 | DM00-2000 or newer |
| CT-S851 | DH00-2000 or newer |
| | DK00-2000 or newer |

* With the older firmware than above, this function doesn't work correctly.

- About rotating printing of symbol

The directions of rotation that can be printed are 0, R90, L90 and 180 degrees.

* The horizontal rotate designation of printBarCode method was supported after "CITIZEN JavaPOS Driver Ver.1.11.2.7".

- Regarding Designation Range of Bar-Code height (height parameter) and Width (Width parameter)

The designation range for both parameters when MapMode Property is set to PTR_MM_DOTS is as follows;

Height Parameter:

1 - 255

Width Parameter:

1 - Value of the RecLineWidth Property

* The width parameter was supported after "CITIZEN JavaPOS Driver Ver.1.11.2.6".

4.5.3 rotatePrint Method

Printing size dynamically changes by printing data within the value of RecSidewaysMaxChars. Please refer to [\[4.5.5 printBitmap Method\]](#) for printBitmap Method when RotatePrint method (Rotate print) is designated.

4.5.4 setBitmap Method / ESC| #B Escape Sequence

Bitmap is registered by specifying Bitmap number (1 - 20) using the SetBitmap method and bitmap printing is carried out by specifying the registered number in the ESC|#B escape sequence. This driver has two modes, raster bit image mode and NV bit image mode. Specification of each mode is as shown below.

- Raster bit image mode

SO stores own bitmap using the SetBitmap method. When SO is closed, the stored bitmap is cleared. Therefore, it is necessary to register bitmap each time SO is opened.

In this mode, bitmap is memorized including printing position designated at the time of registration.

The directions of rotation that can be printed are 0, R90, L90 and 180 degrees. (CD-S500 supports 0 and 180 degrees.) But the printing position is invalid at R90 and L90 degrees.

- NV (Unuse key code) mode

By using the setBitmap method, SO writes bitmap to the nonvolatile memory (Flash ROM) of the printer. Therefore, it is not necessary to register bitmap each time SO is opened.

It is necessary that the bitmap numbers are contiguous from number 1. And it is impossible to remove a registered image by assigning the FileName parameter as an empty string.

In this mode, the printing position (the Alignment parameter) specified upon the registration is not saved, and the data is printed from the left most.

The directions of rotation that can be printed are 0 degrees. It is printed as 0 degrees when 180 degrees is specified, and it is not printed when R90 or L90 degrees is specified.

By registering an image after the mode is changed from NV (Used key code) to NV (Unused key code) mode, all images will be removed.

The image registration, can be used the "POS Printer utility" of utility software for the printer. In this case, please register Logo with "Unused key code mode" in order by Bitmap number.

- NV (Use key code) mode

This mode is available with following printers.

| Support model |
|----------------------------|
| CT-D101 series |
| CT-D150 series |
| CT-D151 series |
| CT-E301 series |
| CT-E351 series |
| CT-E601 series |
| CT-E651 series |
| CT-S251 series |
| CT-S310II series |
| CT-S601/651/801/851 series |

| |
|------------------------------------|
| CT-S601II/651II/801II/851II series |
| CT-S801III/851III series |
| CT-S751 series |
| CT-S2000 series |
| CT-S4000 series |
| CT-S4500 series |

By using the setBitmap method, SO writes bitmap to the nonvolatile memory (Flash ROM) of the printer. Therefore, it is not necessary to register bitmap each time SO is opened.

It is not necessary that the bitmap numbers are contiguous. And it is possible to remove a registered image by assigning the FileName parameter as an empty string.

In this mode, the printing position (the Alignment parameter) specified upon the registration is not saved, and the data is printed from the left most.

The directions of rotation that can be printed are 0 and 180 degrees, and it is not printed when R90 or L90 degrees is specified.

By registering an image after the mode is changed from NV (Unused key code) to NV (Used key code) mode, all images will be removed.

The image registration, can be used the "POS Printer utility" of utility software for the printer. In this case, please register Logo with "Used key code mode". The key corresponding to the bitmap number is as follows.

| | | | | | | | |
|------------------|------|------|------|------|------|-----|------|
| Bitmap number | 1 | 2 | 3 | 4 | 5 | ... | 20 |
| Key (Characters) | "01" | "02" | "03" | "04" | "05" | ... | "20" |

The initial value of this driver is raster bit image mode. To change to the NV (Unuse key code) or NV (Use key code) mode, perform the configuration operation. Please refer to [\[3.4.2 Other printer setting\]](#).

- * The time required for write operation in NV (Unuse key code) or NV (Use key code) mode depends on the communication condition, printer performance, etc.
- * To insure long life of the printer, registration to FlashROM shall be less than 10 times/day.
- * The pixel size which can be designated by driver side is shown as above but there is physical limitation of size in transverse direction at printer side. Please refer to Command Reference for the details of printer physical size.

- About bitmap file format

Available file format is BMP, PNG, GIF and JPEG.

4.5.5 printBitmap Method

Perform bitmap printing with the designation of bitmap file and printing position.

- Combination of rotatePrint Method and printBitmap

The directions of rotation that can be printed are 0, R90, L90 and 180 degrees. (CD-S500 supports 0 and 180 degrees.) But the printing position is invalid at R90 and L90 degrees.

- * The horizontal rotate designation of printBitmap method was supported after "CITIZEN JavaPOS Driver Ver.1.11.2.7".

- About bitmap file format

Available file format is BMP, PNG, GIF and JPEG.

4.5.6 AsyncMode Property**- TRUE**

Output method (printNormal, printTwoNormal, cutPaper, rotatePrint, printBarCode, printBitmap) is executed asynchronously.

- FALSE

Output method is printed synchronously. When error occurs at the asynchronous output, error event is reported at about 0.5-s intervals.

4.5.7 ErrorLevel Property**- PTR_EL_NONE**

Indicated when error is not detected.

- PTR_EL_RECOVERABLE

Indicated as recoverable error when Paper Out/Cover Open.

- PTR_EL_FATAL

Indicated as irrecoverable error at Auto Cutter error happened.

4.5.8 OutputID Property / OutputCompleteEvent Event

Identifier of asynchronous output started just before is retained and OutputID Property is incremented by +1.

4.5.9 RecLineChars / RecLineCharsList Property

The number of one-byte characters of the font printed in one line on the paper is specified.

- RecLineChars property: Specifies the maximum number of digits of FontA corresponding to the specified paper size.
- RecLineCharsList property: Lists the maximum number of digits of FontA, FontB, FontC corresponding to the specified paper size. (Some printer has no FontC.)

For details of printer fonts, refer to User's Guide of the printer.

When setting the initial value of paper size and maximum number of digits (FontA), perform the configuration operation. Please refer to [\[3.4.1 Size of Paper width used and the maximum number of columns per line\]](#).

The value of the RecLineChars/ RecLineCharsList corresponding to "Paper Model", "columns" and "Printer font" of each printer is as shown below.

CT-D101 Series

| Paper Model | | columns | FontA(12*24dot) | FontB(9*24dot) | FontC(8*16dot) |
|-------------|------|---------|-----------------|----------------|----------------|
| 80mm | 58mm | 30 | 30 | 40 | 45 |
| | | 32 | 32 | 42 | 48 |
| | | 35 | 35 | 46 | 52 |
| | | 42 | 42 | 56 | 63 |
| | | 48 | 48 | 64 | 72 |

CT-D150 Series

| Paper Model | | columns | FontA(12*24dot) | FontB(9*24dot) | FontC(8*16dot) |
|-------------|------|---------|-----------------|----------------|----------------|
| 80mm | 58mm | 30 | 30 | 40 | 45 |
| | | 32 | 32 | 42 | 48 |
| | | 35 | 35 | 46 | 52 |
| | | 42 | 42 | 56 | 63 |
| | | 48 | 48 | 64 | 72 |

CT-D151 Series

| Paper Model | | columns | FontA(12*24dot) | FontB(9*24dot) | FontC(8*16dot) |
|-------------|------|---------|-----------------|----------------|----------------|
| 80mm | 58mm | 30 | 30 | 40 | 45 |
| | | 32 | 32 | 42 | 48 |
| | | 35 | 35 | 46 | 52 |
| | | 42 | 42 | 56 | 63 |
| | | 48 | 48 | 64 | 72 |

CT-E301 Series

| Paper Model | | columns | FontA(12*24dot) | FontB(9*24dot) | FontC(8*16dot) |
|-------------|------|---------|-----------------|----------------|----------------|
| 80mm | 58mm | 30 | 30 | 40 | 45 |
| | | 32 | 32 | 42 | 48 |
| | | 35 | 35 | 46 | 52 |
| | | 42 | 42 | 56 | 63 |
| | | 48 | 48 | 64 | 72 |

CT-E351 Series

| Paper Model | | columns | FontA(12*24dot) | FontB(9*24dot) | FontC(8*16dot) |
|-------------|------|---------|-----------------|----------------|----------------|
| 80mm | 58mm | 30 | 30 | 40 | 45 |
| | | 32 | 32 | 42 | 48 |
| | | 35 | 35 | 46 | 52 |
| | | 42 | 42 | 56 | 63 |
| | | 48 | 48 | 64 | 72 |

CT-E601 Series

| Paper Model | | columns | FontA(12*24dot) | FontB(9*24dot) | FontC(8*16dot) |
|-------------|------|---------|-----------------|----------------|----------------|
| 80mm | 58mm | 30 | 30 | 40 | 45 |
| | | 32 | 32 | 42 | 48 |
| | | 35 | 35 | 46 | 52 |
| | | 42 | 42 | 56 | 63 |
| | | 48 | 48 | 64 | 72 |

CT-E651 Series

| Paper Model | | columns | FontA(12*24dot) | FontB(9*24dot) | FontC(8*16dot) |
|-------------|------|---------|-----------------|----------------|----------------|
| 80mm | 58mm | 30 | 30 | 40 | 45 |
| | | 32 | 32 | 42 | 48 |
| | | 35 | 35 | 46 | 52 |
| | | 42 | 42 | 56 | 63 |
| | | 48 | 48 | 64 | 72 |

CT-S251 Series

| Paper Model | | columns | FontA(12*24dot) | FontB(9*24dot) | FontC(8*16dot) |
|-------------|--|---------|-----------------|----------------|----------------|
| 58mm | | 30 | 30 | 40 | 45 |
| | | 32 | 32 | 42 | 48 |
| | | 35 | 35 | 46 | 52 |
| | | 36 | 36 | 48 | 54 |

CT-S281 Series

| Paper Model | | columns | FontA(12*24dot) | FontB(9*24dot) | FontC(8*16dot) |
|-------------|--|---------|-----------------|----------------|----------------|
| 58mm | | 32 | 32 | 42 | 48 |

CT-S310 Series

| Paper Model | | columns | FontA(12*24dot) | FontB(9*17dot) | FontC(8*16dot) |
|-------------|------|---------|-----------------|----------------|----------------|
| 80mm | 58mm | 30 | 30 | 40 | 45 |
| | | 32 | 32 | 42 | 48 |
| | | 42 | 42 | 56 | 63 |
| | | 48 | 48 | 64 | 72 |

CT-S310II Series

| Paper Model | | columns | FontA(12*24dot) | FontB(9*24dot) | FontC(8*16dot) |
|-------------|------|---------|-----------------|----------------|----------------|
| 80mm | 58mm | 30 | 30 | 40 | 45 |
| | | 32 | 32 | 42 | 48 |
| | | 35 | 35 | 46 | 52 |
| | | 42 | 42 | 56 | 63 |
| | | 48 | 48 | 64 | 72 |

CT-S601/651/801/851 Series

| Paper Model | | | | columns | FontA(12*24dot) | FontB(9*17dot) | FontC(8*16dot) |
|-------------|------|------|------|---------|-----------------|----------------|----------------|
| 83mm | 80mm | 60mm | 58mm | 30 | 30 | 40 | 45 |
| | | | | 32 | 32 | 42 | 48 |
| | | | | 35 | 35 | 46 | 52 |
| | | | | 36 | 36 | 48 | 54 |
| | | | | 42 | 42 | 56 | 64 |
| | | | | 48 | 48 | 64 | 72 |
| | | | | 53 | 53 | 71 | 80 |

CT-S601II/651II/801II/851II Series

| Paper Model | | | | columns | FontA(12*24dot) | FontB(9*24dot) | FontC(8*16dot) |
|-------------|------|------|------|---------|-----------------|----------------|----------------|
| 83mm | 80mm | 60mm | 58mm | 30 | 30 | 40 | 45 |
| | | | | 32 | 32 | 42 | 48 |
| | | | | 35 | 35 | 46 | 52 |
| | | | | 36 | 36 | 48 | 54 |
| | | | | 42 | 42 | 56 | 64 |
| | | | | 48 | 48 | 64 | 72 |
| | | | | 53 | 53 | 71 | 80 |

CT-S801III/851III Series

| Paper Model | | | | columns | FontA(12*24dot) | FontB(9*24dot) | FontC(8*16dot) |
|-------------|------|------|------|---------|-----------------|----------------|----------------|
| 83mm | 80mm | 60mm | 58mm | 30 | 30 | 40 | 45 |
| | | | | 32 | 32 | 42 | 48 |
| | | | | 35 | 35 | 46 | 52 |
| | | | | 36 | 36 | 48 | 54 |
| | | | | 42 | 42 | 56 | 64 |
| | | | | 48 | 48 | 64 | 72 |
| | | | | 53 | 53 | 71 | 80 |

CT-S751 Series

| Paper Model | | columns | FontA(12*24dot) | FontB(9*24dot) | FontC(8*16dot) |
|-------------|------|---------|-----------------|----------------|----------------|
| 80mm | 58mm | 30 | 30 | 40 | 45 |
| | | 32 | 32 | 42 | 48 |
| | | 35 | 35 | 46 | 52 |
| | | 42 | 42 | 56 | 63 |
| | | 48 | 48 | 64 | 72 |

CT-S2000 Series

| Paper Model | | | | columns | FontA(12*24dot) | FontB(9*24dot) | FontC(8*16dot) |
|-------------|------|------|------|---------|-----------------|----------------|----------------|
| 83mm | 80mm | 60mm | 58mm | 30 | 30 | 40 | 45 |
| | | | | 32 | 32 | 42 | 48 |
| | | | | 35 | 35 | 46 | 52 |
| | | | | 36 | 36 | 48 | 54 |
| | | | | 42 | 42 | 56 | 64 |
| | | | | 48 | 48 | 64 | 72 |
| | | | | 53 | 53 | 71 | 80 |

CT-S4000 Series

| Paper Model | | | columns | FontA(12*24dot) | FontB(9*24dot) | FontC(8*16dot) |
|-------------|--------|------|---------|-----------------|----------------|----------------|
| 112mm | 82.5mm | 80mm | 42 | 42 | 56 | 64 |
| | | | 48 | 48 | 64 | 72 |
| | | | 55 | 55 | 73 | 82 |
| | | | 60 | 60 | 80 | 90 |
| | | | 69 | 69 | 92 | 104 |

CT-S4500 Series

| Paper Model | | | | columns | FontA(12*24dot) | FontB(9*24dot) | FontC(8*16dot) |
|-------------|--------|------|------|---------|-----------------|----------------|----------------|
| 112mm | 80.5mm | 80mm | 58mm | 30 | 30 | 40 | 45 |
| | | | | 32 | 32 | 42 | 48 |
| | | | | 35 | 35 | 46 | 52 |
| | | | | 36 | 36 | 48 | 54 |
| | | | | 42 | 42 | 56 | 64 |
| | | | | 48 | 48 | 64 | 72 |
| | | | | 55 | 55 | 73 | 82 |
| | | | | 60 | 60 | 80 | 90 |
| | | | | 69 | 69 | 92 | 104 |

PMU2300III Series

| Paper Model | | columns | FontA(12*24dot) | FontB(9*24dot) | FontC(8*16dot) |
|-------------|--|---------|-----------------|----------------|----------------|
| 80mm | | 42 | 42 | 56 | 63 |
| | | 48 | 48 | 64 | 72 |

PMU3300 Series

| Paper Model | | | columns | FontA(12*24dot) | FontB(9*24dot) | FontC(8*16dot) |
|-------------|------|------|---------|-----------------|----------------|----------------|
| 80mm | 60mm | 58mm | 30 | 30 | 40 | 45 |
| | | | 32 | 32 | 42 | 48 |
| | | | 35 | 35 | 46 | 52 |
| | | | 36 | 36 | 48 | 54 |
| | | | 42 | 42 | 56 | 64 |
| | | | 48 | 48 | 64 | 72 |

- About Kanji font (KANJI)

As shown above, Kanji font is calculated based on one-byte character. Accordingly, when Kanji font of multi-font is used, it is treated as two characters basically.

(Refer to [\[4.5.10 RecSidewaysMaxChars Property\]](#).)

4.5.10 RecSidewaysMaxChars Property

Calculation is made based on one-byte character.

Kanji font (KANJI) is basically treated as two characters but some font selected by the value of the RecLineChars property may not correspond to two characters simply.

4.5.11 RecSidewaysMaxLines Property

This varies in conjunction with the value of the RecLineSpacing property and RecLineChars property.

In addition, in some cases, the value may be smaller than the actual number of printable lines depending on the value of the preset RecLineSpacing property.

4.5.12 StatusUpdateEvent Event

The Status parameter of this event is for device class intrinsic data and status change such as paper or lid is indicated at printer. Followings are Status parameter Values against status change of CITIZEN POS printer.

| Printer Status | StatusUpdateEvents(Status) |
|--------------------------------------|----------------------------|
| Opened the Lid | PTR_SUE_COVER_OPEN |
| Paper is taken out | PTR_SUE_REC_NEAREMPTY |
| Closed the lid without loading paper | PTR_SUE_COVER_OK |
| | PTR_SUE_REC_EMPTY |

In addition, power status change is indicated for the printer which is able to set PowerNotify Property Value indicating the type of power notification function on JPOS_PN_ENABLED.

4.5.13 Function to detect the completion of printing

In the support model, after the printing output, the driver waits for the printing completion reply from a printer and judge the success / failure of the method.

- Support model

| Model | Firmware Version |
|-----------------------------|--------------------|
| CT-D101 | All version |
| CT-D150 | |
| CT-D151 | |
| CT-E301 | |
| CT-E351 | |
| CT-E601 | |
| CT-E651 | |
| CT-S251 | |
| CT-S601II/651II/801II/851II | |
| CT-S801III/851III | |
| CT-S751 | |
| CT-S4500 | |
| CT-S310II | |
| CT-S601 | DT00-0400 or newer |
| CT-S651 | DL00-2000 or newer |
| CT-S801 | DM00-2000 or newer |
| | DH00-2000 or newer |

| | |
|---------|--------------------|
| CT-S851 | DK00-2000 or newer |
|---------|--------------------|

* With the older firmware than above, this function doesn't work correctly.

Please set this function invalidly when you use a printer that is older than these printers.

- Targeted method

printNormal, printImmediate, cutPaper, rotatePrint, printBarCode, printBitmap, transactionPrint, markFeed, pageModePrint, printMemoryBitmap

In the support model, the initial value of this driver is enabled of function to detect the completion of printing. To change to disable, perform the configuration operation. Please refer to [[3.4.2 Other printer setting](#)].

* The function to detect the completion of printing was supported after "CITIZEN JavaPOS Driver Ver.1.11.2.8"

4.5.14 Function to evade buffer full when the printer error occurred in the printing output

In the support model, when a printer becomes the error, the printer clears a buffer automatically and supports a function to keep communication normally.

- Support model

| Model | Firmware Version |
|-----------------------------|--------------------|
| CT-D101 | All version |
| CT-D150 | |
| CT-D151 | |
| CT-E301 | |
| CT-E351 | |
| CT-E601 | |
| CT-E651 | |
| CT-S251 | |
| CT-S601II/651II/801II/851II | |
| CT-S801III/851III | |
| CT-S751 | |
| CT-S4500 | |
| CT-S310II | |
| CT-S601 | DT00-0400 or newer |
| CT-S651 | DL00-2000 or newer |
| CT-S801 | DM00-2000 or newer |
| CT-S851 | DH00-2000 or newer |
| | DK00-2000 or newer |

* The function to evade buffer full when the printer error occurred in the printing output was supported after "CITIZEN JavaPOS Driver Ver.1.11.2.8".

4.5.15 Handling of character encoding

This driver is encoding with the value of the CharSet property, when sending the data of Unicode format to the printer. However, when 255(UserDefined) and encoding are failures, this driver is encoding in the default code page of the system.

4.5.16 Printing UTF-8 encode characters

In the support model, by setting the CharacterSet property to 65001, you can print the interoperating East Asian legacy double-byte character sets for Japanese, Korean, Simplified and Traditional Chinese. The printer picks up available characters one by one based on the language assigned for the MSW9-4 selection. Please note that this may result in an inconsistency of the font typeface.

- Support model

CT-D101/150/151 series, CT-E301/351/601/651 series, CT-S751//801III/851III/4500 series

4.5.17 Grayscale print

In the support model, by switching the bitmap printing type to the grayscale, you can print the grayscale (4bpp bitmap).

- Support model

CT-D151, CT-E601/651, CT-S251/601II/651II/801II/851II/801III/851III/751 series

- Target method

printBitmap, printMemoryBitmap, setBitmap (Raster and NV Used key code mode)

The initial value of this driver is the normal (1bpp bitmap) print of the bitmap printing type. To change to the grayscale (4bpp bitmap) print, perform the configuration operation. Please refer to [\[3.4.2 Other printer setting\]](#).

The bitmap printing type can be switched by directIO method. Set the value of the following into the Command parameter, please run the DirectIO method.

| Command parameter | Bitmap printing type |
|--|-------------------------------|
| PTR_DI_SET_BITMAP_PRINTING_NORMAL (12000) | Normal (1bpp bitmap) print |
| PTR_DI_SET_BITMAP_PRINTING_GRAYSCALE (12001) | Grayscale (4bpp bitmap) print |

This parameter in this table is defined by "com.citizen.jpos.service.CSJjposConst ". Refer to CBMjpos.jar of the installation directory, and please use it.

5. Cash Drawer Service Object

For the details, method of use, etc. of property, method and event, refer to “Java for Retail POS Programming Guide”.

5.1. Cash Drawer Method Relations

CT-D101

| Method | Status of support by the driver (CITIZEN D101 Cash Drawer *) | | Notes |
|--------------------|---|---------------------------------------|---------------|
| open | ✓ | | |
| close | ✓ | | |
| claim | ✓ | | |
| release | ✓ | | |
| checkHealth | ✓ | JPOS_CH_INTERNAL, JPOS_CH_EXTERNAL | |
| clearInput | | JPOS_E_ILLEGAL | Not supported |
| clearOutput | | JPOS_E_ILLEGAL | Not supported |
| directIO | | JPOS_E_ILLEGAL | Not supported |
| resetStatistics | | JPOS_E_ILLEGAL | Not supported |
| retrieveStatistics | | JPOS_E_ILLEGAL | Not supported |
| updateStatistics | | JPOS_E_ILLEGAL | Not supported |
| openDrawer | ✓ | | |
| waitForDrawerClose | ✓ | | |

CT-D150

| Method | Status of support by the driver (CITIZEN D150 Cash Drawer *) | | Notes |
|--------------------|---|---------------------------------------|---------------|
| open | ✓ | | |
| close | ✓ | | |
| claim | ✓ | | |
| release | ✓ | | |
| checkHealth | ✓ | JPOS_CH_INTERNAL, JPOS_CH_EXTERNAL | |
| clearInput | | JPOS_E_ILLEGAL | Not supported |
| clearOutput | | JPOS_E_ILLEGAL | Not supported |
| directIO | | JPOS_E_ILLEGAL | Not supported |
| resetStatistics | | JPOS_E_ILLEGAL | Not supported |
| retrieveStatistics | | JPOS_E_ILLEGAL | Not supported |
| updateStatistics | | JPOS_E_ILLEGAL | Not supported |
| openDrawer | ✓ | | |
| waitForDrawerClose | ✓ | | |

CT-D151

| Method | Status of support by the driver (CITIZEN D151 Cash Drawer *) | | Notes |
|--------------------|---|---------------------------------------|---------------|
| open | ✓ | | |
| close | ✓ | | |
| claim | ✓ | | |
| release | ✓ | | |
| checkHealth | ✓ | JPOS_CH_INTERNAL, JPOS_CH_EXTERNAL | |
| clearInput | | JPOS_E_ILLEGAL | Not supported |
| clearOutput | | JPOS_E_ILLEGAL | Not supported |
| directIO | | JPOS_E_ILLEGAL | Not supported |
| resetStatistics | | JPOS_E_ILLEGAL | Not supported |
| retrieveStatistics | | JPOS_E_ILLEGAL | Not supported |
| updateStatistics | | JPOS_E_ILLEGAL | Not supported |
| openDrawer | ✓ | | |
| waitForDrawerClose | ✓ | | |

CT-E301

| Method | Status of support by the driver (CITIZEN E301 Cash Drawer *) | | Notes |
|--------------------|---|---------------------------------------|---------------|
| open | ✓ | | |
| close | ✓ | | |
| claim | ✓ | | |
| release | ✓ | | |
| checkHealth | ✓ | JPOS_CH_INTERNAL, JPOS_CH_EXTERNAL | |
| clearInput | | JPOS_E_ILLEGAL | Not supported |
| clearOutput | | JPOS_E_ILLEGAL | Not supported |
| directIO | | JPOS_E_ILLEGAL | Not supported |
| resetStatistics | | JPOS_E_ILLEGAL | Not supported |
| retrieveStatistics | | JPOS_E_ILLEGAL | Not supported |
| updateStatistics | | JPOS_E_ILLEGAL | Not supported |
| openDrawer | ✓ | | |
| waitForDrawerClose | ✓ | | |

CT-E351

| Method | Status of support by the driver (CITIZEN E351 Cash Drawer *) | | Notes |
|--------------------|---|---------------------------------------|---------------|
| open | ✓ | | |
| close | ✓ | | |
| claim | ✓ | | |
| release | ✓ | | |
| checkHealth | ✓ | JPOS_CH_INTERNAL, JPOS_CH_EXTERNAL | |
| clearInput | | JPOS_E_ILLEGAL | Not supported |
| clearOutput | | JPOS_E_ILLEGAL | Not supported |
| directIO | | JPOS_E_ILLEGAL | Not supported |
| resetStatistics | | JPOS_E_ILLEGAL | Not supported |
| retrieveStatistics | | JPOS_E_ILLEGAL | Not supported |
| updateStatistics | | JPOS_E_ILLEGAL | Not supported |
| openDrawer | ✓ | | |
| waitForDrawerClose | ✓ | | |

CT-E601

| Method | Status of support by the driver (CITIZEN S601 Cash Drawer *) | Notes |
|--------------------|---|---------------|
| open | ✓ | |
| close | ✓ | |
| claim | ✓ | |
| release | ✓ | |
| checkHealth | ✓ JPOS_CH_INTERNAL, JPOS_CH_EXTERNAL | |
| clearInput | JPOS_E_ILLEGAL | Not supported |
| clearOutput | JPOS_E_ILLEGAL | Not supported |
| directIO | JPOS_E_ILLEGAL | Not supported |
| resetStatistics | JPOS_E_ILLEGAL | Not supported |
| retrieveStatistics | JPOS_E_ILLEGAL | Not supported |
| updateStatistics | JPOS_E_ILLEGAL | Not supported |
| openDrawer | ✓ | |
| waitForDrawerClose | ✓ | |

CT-E651

| Method | Status of support by the driver (CITIZEN E651 Cash Drawer *) | Notes |
|--------------------|---|---------------|
| open | ✓ | |
| close | ✓ | |
| claim | ✓ | |
| release | ✓ | |
| checkHealth | ✓ JPOS_CH_INTERNAL, JPOS_CH_EXTERNAL | |
| clearInput | JPOS_E_ILLEGAL | Not supported |
| clearOutput | JPOS_E_ILLEGAL | Not supported |
| directIO | JPOS_E_ILLEGAL | Not supported |
| resetStatistics | JPOS_E_ILLEGAL | Not supported |
| retrieveStatistics | JPOS_E_ILLEGAL | Not supported |
| updateStatistics | JPOS_E_ILLEGAL | Not supported |
| openDrawer | ✓ | |
| waitForDrawerClose | ✓ | |

CT-S251

| Method | Status of support by the driver (CITIZEN S251 Cash Drawer *) | Notes |
|--------------------|---|---------------|
| open | ✓ | |
| close | ✓ | |
| claim | ✓ | |
| release | ✓ | |
| checkHealth | ✓ JPOS_CH_INTERNAL, JPOS_CH_EXTERNAL | |
| clearInput | JPOS_E_ILLEGAL | Not supported |
| clearOutput | JPOS_E_ILLEGAL | Not supported |
| directIO | JPOS_E_ILLEGAL | Not supported |
| resetStatistics | JPOS_E_ILLEGAL | Not supported |
| retrieveStatistics | JPOS_E_ILLEGAL | Not supported |
| updateStatistics | JPOS_E_ILLEGAL | Not supported |
| openDrawer | ✓ | |
| waitForDrawerClose | ✓ | |

CT-S281

| Method | Status of support by the driver (CITIZEN S281 Cash Drawer *) | | Notes |
|--------------------|---|---------------------------------------|---------------|
| open | ✓ | | |
| close | ✓ | | |
| claim | ✓ | | |
| release | ✓ | | |
| checkHealth | ✓ | JPOS_CH_INTERNAL, JPOS_CH_EXTERNAL | |
| clearInput | | JPOS_E_ILLEGAL | Not supported |
| clearOutput | | JPOS_E_ILLEGAL | Not supported |
| directIO | | JPOS_E_ILLEGAL | Not supported |
| resetStatistics | | JPOS_E_ILLEGAL | Not supported |
| retrieveStatistics | | JPOS_E_ILLEGAL | Not supported |
| updateStatistics | | JPOS_E_ILLEGAL | Not supported |
| openDrawer | ✓ | | |
| waitForDrawerClose | ✓ | | |

CT-S310

| Method | Status of support by the driver (CITIZEN S310 Cash Drawer *) | | Notes |
|--------------------|---|---------------------------------------|---------------|
| open | ✓ | | |
| close | ✓ | | |
| claim | ✓ | | |
| release | ✓ | | |
| checkHealth | ✓ | JPOS_CH_INTERNAL, JPOS_CH_EXTERNAL | |
| clearInput | | JPOS_E_ILLEGAL | Not supported |
| clearOutput | | JPOS_E_ILLEGAL | Not supported |
| directIO | | JPOS_E_ILLEGAL | Not supported |
| resetStatistics | | JPOS_E_ILLEGAL | Not supported |
| retrieveStatistics | | JPOS_E_ILLEGAL | Not supported |
| updateStatistics | | JPOS_E_ILLEGAL | Not supported |
| openDrawer | ✓ | | |
| waitForDrawerClose | ✓ | | |

CT-S310II

| Method | Status of support by the driver (CITIZEN S310II Cash Drawer *) | | Notes |
|--------------------|---|---------------------------------------|---------------|
| open | ✓ | | |
| close | ✓ | | |
| claim | ✓ | | |
| release | ✓ | | |
| checkHealth | ✓ | JPOS_CH_INTERNAL, JPOS_CH_EXTERNAL | |
| clearInput | | JPOS_E_ILLEGAL | Not supported |
| clearOutput | | JPOS_E_ILLEGAL | Not supported |
| directIO | | JPOS_E_ILLEGAL | Not supported |
| resetStatistics | | JPOS_E_ILLEGAL | Not supported |
| retrieveStatistics | | JPOS_E_ILLEGAL | Not supported |
| updateStatistics | | JPOS_E_ILLEGAL | Not supported |
| openDrawer | ✓ | | |
| waitForDrawerClose | ✓ | | |

CT-S601/651/801/851

| Method | Status of support by the driver (CITIZEN S601 Cash Drawer *, CITIZEN S651 Cash Drawer *, CITIZEN S801 Cash Drawer *, CITIZEN S851 Cash Drawer *) | | Notes |
|--------------------|--|---------------------------------------|---------------|
| open | ✓ | | |
| close | ✓ | | |
| claim | ✓ | | |
| release | ✓ | | |
| checkHealth | ✓ | JPOS_CH_INTERNAL, JPOS_CH_EXTERNAL | |
| clearInput | | JPOS_E_ILLEGAL | Not supported |
| clearOutput | | JPOS_E_ILLEGAL | Not supported |
| directIO | | JPOS_E_ILLEGAL | Not supported |
| resetStatistics | | JPOS_E_ILLEGAL | Not supported |
| retrieveStatistics | | JPOS_E_ILLEGAL | Not supported |
| updateStatistics | | JPOS_E_ILLEGAL | Not supported |
| openDrawer | ✓ | | |
| waitForDrawerClose | ✓ | | |

CT-S601II/651II/801II/851II

| Method | Status of support by the driver (CITIZEN S601II Cash Drawer *, CITIZEN S651II Cash Drawer *, CITIZEN S801II Cash Drawer *, CITIZEN S851II Cash Drawer *) | | Notes |
|--------------------|--|---------------------------------------|---------------|
| open | ✓ | | |
| close | ✓ | | |
| claim | ✓ | | |
| release | ✓ | | |
| checkHealth | ✓ | JPOS_CH_INTERNAL, JPOS_CH_EXTERNAL | |
| clearInput | | JPOS_E_ILLEGAL | Not supported |
| clearOutput | | JPOS_E_ILLEGAL | Not supported |
| directIO | | JPOS_E_ILLEGAL | Not supported |
| resetStatistics | | JPOS_E_ILLEGAL | Not supported |
| retrieveStatistics | | JPOS_E_ILLEGAL | Not supported |
| updateStatistics | | JPOS_E_ILLEGAL | Not supported |
| openDrawer | ✓ | | |
| waitForDrawerClose | ✓ | | |

CT-S801III/851III

| Method | Status of support by the driver (CITIZEN S801III Cash Drawer *, CITIZEN S851III Cash Drawer *) | | Notes |
|--------------------|--|---------------------------------------|---------------|
| open | ✓ | | |
| close | ✓ | | |
| claim | ✓ | | |
| release | ✓ | | |
| checkHealth | ✓ | JPOS_CH_INTERNAL, JPOS_CH_EXTERNAL | |
| clearInput | | JPOS_E_ILLEGAL | Not supported |
| clearOutput | | JPOS_E_ILLEGAL | Not supported |
| directIO | | JPOS_E_ILLEGAL | Not supported |
| resetStatistics | | JPOS_E_ILLEGAL | Not supported |
| retrieveStatistics | | JPOS_E_ILLEGAL | Not supported |
| updateStatistics | | JPOS_E_ILLEGAL | Not supported |
| openDrawer | ✓ | | |
| waitForDrawerClose | ✓ | | |

CT-S751

| Method | Status of support by the driver (CITIZEN S751 Cash Drawer *) | | Notes |
|--------------------|---|---------------------------------------|---------------|
| open | ✓ | | |
| close | ✓ | | |
| claim | ✓ | | |
| release | ✓ | | |
| checkHealth | ✓ | JPOS_CH_INTERNAL, JPOS_CH_EXTERNAL | |
| clearInput | | JPOS_E_ILLEGAL | Not supported |
| clearOutput | | JPOS_E_ILLEGAL | Not supported |
| directIO | | JPOS_E_ILLEGAL | Not supported |
| resetStatistics | | JPOS_E_ILLEGAL | Not supported |
| retrieveStatistics | | JPOS_E_ILLEGAL | Not supported |
| updateStatistics | | JPOS_E_ILLEGAL | Not supported |
| openDrawer | ✓ | | |
| waitForDrawerClose | ✓ | | |

CT-S2000

| Method | Status of support by the driver (CITIZEN S2000 Cash Drawer *) | | Notes |
|--------------------|--|---------------------------------------|---------------|
| open | ✓ | | |
| close | ✓ | | |
| claim | ✓ | | |
| release | ✓ | | |
| checkHealth | ✓ | JPOS_CH_INTERNAL, JPOS_CH_EXTERNAL | |
| clearInput | | JPOS_E_ILLEGAL | Not supported |
| clearOutput | | JPOS_E_ILLEGAL | Not supported |
| directIO | | JPOS_E_ILLEGAL | Not supported |
| resetStatistics | | JPOS_E_ILLEGAL | Not supported |
| retrieveStatistics | | JPOS_E_ILLEGAL | Not supported |
| updateStatistics | | JPOS_E_ILLEGAL | Not supported |
| openDrawer | ✓ | | |
| waitForDrawerClose | ✓ | | |

CT-S4000

| Method | Status of support by the driver (CITIZEN S4000 Cash Drawer *) | | Notes |
|--------------------|--|---------------------------------------|---------------|
| open | ✓ | | |
| close | ✓ | | |
| claim | ✓ | | |
| release | ✓ | | |
| checkHealth | ✓ | JPOS_CH_INTERNAL, JPOS_CH_EXTERNAL | |
| clearInput | | JPOS_E_ILLEGAL | Not supported |
| clearOutput | | JPOS_E_ILLEGAL | Not supported |
| directIO | | JPOS_E_ILLEGAL | Not supported |
| resetStatistics | | JPOS_E_ILLEGAL | Not supported |
| retrieveStatistics | | JPOS_E_ILLEGAL | Not supported |
| updateStatistics | | JPOS_E_ILLEGAL | Not supported |
| openDrawer | ✓ | | |
| waitForDrawerClose | ✓ | | |

CT-S4500

| Method | Status of support by the driver (CITIZEN S4500 Cash Drawer *) | | Notes |
|--------------------|--|---------------------------------------|---------------|
| open | ✓ | | |
| close | ✓ | | |
| claim | ✓ | | |
| release | ✓ | | |
| checkHealth | ✓ | JPOS_CH_INTERNAL, JPOS_CH_EXTERNAL | |
| clearInput | | JPOS_E_ILLEGAL | Not supported |
| clearOutput | | JPOS_E_ILLEGAL | Not supported |
| directIO | | JPOS_E_ILLEGAL | Not supported |
| resetStatistics | | JPOS_E_ILLEGAL | Not supported |
| retrieveStatistics | | JPOS_E_ILLEGAL | Not supported |
| updateStatistics | | JPOS_E_ILLEGAL | Not supported |
| openDrawer | ✓ | | |
| waitForDrawerClose | ✓ | | |

5.2. Cash Drawer Property Relations

CT-D101

| Property | Attribute | Status of support by the driver (CITIZEN D101 Cash Drawer *) | | Notes |
|----------------------------|-----------|---|--|--|
| AutoDisable | R/W | | Not applicable with Drawer | |
| CapCompareFirmwareVersion | R | | false | Not supported |
| CapPowerReporting | R | ✓ | JPOS_PR_NONE | Refer to 5.4.1 CapPowerReporting/ PowerNotify/ PowerState Property |
| CapStatisticsReporting | R | | false | Not supported |
| CapUpdateFirmware | R | | false | Not supported |
| CapUpdateStatistics | R | | false | Not supported |
| CheckHealthText | R | ✓ | | |
| Claimed | R | ✓ | | |
| DataCount | R | | Not applicable with Drawer | |
| DataEventEnabled | R/W | | Not applicable with Drawer | |
| DeviceEnabled | R/W | ✓ | | |
| FreezeEvents | R/W | ✓ | | |
| OpenResult | R | ✓ | | |
| OutputID | R | | Not applicable with Drawer | |
| PowerNotify | R/W | | JPOS_PN_DISABLE | Refer to 5.4.1 CapPowerReporting/ PowerNotify/ PowerState Property |
| PowerState | R | | JPOS_PS_UNKNOWN | Refer to 5.4.1 CapPowerReporting/ PowerNotify/ PowerState Property |
| State | R | ✓ | | |
| DeviceControlDescription | R | ✓ | JavaPOS CashDrawer Device Control | |
| DeviceControlVersion | R | ✓ | 1014000 | |
| DeviceServiceDescription | R | ✓ | CITIZEN Service Object for Thermal Printer Cash Drawers ver 1.14.*.* | |
| DeviceServiceVersion | R | ✓ | 1014*** | |
| PhysicalDeviceDescription | R | ✓ | CITIZEN Thermal POSPrinter Cash Drawer * | |
| PhysicalDeviceName | R | ✓ | CITIZEN CT-D101 Cash Drawer | |
| CapStatus | R | ✓ | | |
| CapStatusMultiDrawerDetect | R | ✓ | | |
| DrawerOpened | R | ✓ | | |

CT-D150

| Property | Attribute | Status of support by the driver (CITIZEN D150 Cash Drawer *) | | Notes |
|----------------------------|-----------|---|--|--|
| AutoDisable | R/W | | Not applicable with Drawer | |
| CapCompareFirmwareVersion | R | | false | Not supported |
| CapPowerReporting | R | ✓ | JPOS_PR_NONE | Refer to 5.4.1 CapPowerReporting/ PowerNotify/ PowerState Property |
| CapStatisticsReporting | R | | false | Not supported |
| CapUpdateFirmware | R | | false | Not supported |
| CapUpdateStatistics | R | | false | Not supported |
| CheckHealthText | R | ✓ | | |
| Claimed | R | ✓ | | |
| DataCount | R | | Not applicable with Drawer | |
| DataEventEnabled | R/W | | Not applicable with Drawer | |
| DeviceEnabled | R/W | ✓ | | |
| FreezeEvents | R/W | ✓ | | |
| OpenResult | R | ✓ | | |
| OutputID | R | | Not applicable with Drawer | |
| PowerNotify | R/W | | JPOS_PN_DISABLE | Refer to 5.4.1 CapPowerReporting/ PowerNotify/ PowerState Property |
| PowerState | R | | JPOS_PS_UNKNOWN | Refer to 5.4.1 CapPowerReporting/ PowerNotify/ PowerState Property |
| State | R | ✓ | | |
| DeviceControlDescription | R | ✓ | JavaPOS CashDrawer Device Control | |
| DeviceControlVersion | R | ✓ | 1014000 | |
| DeviceServiceDescription | R | ✓ | CITIZEN Service Object for Thermal Printer Cash Drawers ver 1.14.*.* | |
| DeviceServiceVersion | R | ✓ | 1014*** | |
| PhysicalDeviceDescription | R | ✓ | CITIZEN Thermal POSPrinter Cash Drawer * | |
| PhysicalDeviceName | R | ✓ | CITIZEN CT-D150 Cash Drawer | |
| CapStatus | R | ✓ | | |
| CapStatusMultiDrawerDetect | R | ✓ | | |
| DrawerOpened | R | ✓ | | |

CT-D151

| Property | Attribute | Status of support by the driver (CITIZEN D151 Cash Drawer *) | | Notes |
|----------------------------|-----------|---|--|--|
| AutoDisable | R/W | | Not applicable with Drawer | |
| CapCompareFirmwareVersion | R | | False | Not supported |
| CapPowerReporting | R | ✓ | JPOS_PR_NONE | Refer to 5.4.1 CapPowerReporting/ PowerNotify/ PowerState Property |
| CapStatisticsReporting | R | | False | Not supported |
| CapUpdateFirmware | R | | False | Not supported |
| CapUpdateStatistics | R | | False | Not supported |
| CheckHealthText | R | ✓ | | |
| Claimed | R | ✓ | | |
| DataCount | R | | Not applicable with Drawer | |
| DataEventEnabled | R/W | | Not applicable with Drawer | |
| DeviceEnabled | R/W | ✓ | | |
| FreezeEvents | R/W | ✓ | | |
| OpenResult | R | ✓ | | |
| OutputID | R | | Not applicable with Drawer | |
| PowerNotify | R/W | | JPOS_PN_DISABLE | Refer to 5.4.1 CapPowerReporting/ PowerNotify/ PowerState Property |
| PowerState | R | | JPOS_PS_UNKNOWN | Refer to 5.4.1 CapPowerReporting/ PowerNotify/ PowerState Property |
| State | R | ✓ | | |
| DeviceControlDescription | R | ✓ | JavaPOS CashDrawer Device Control | |
| DeviceControlVersion | R | ✓ | 1014000 | |
| DeviceServiceDescription | R | ✓ | CITIZEN Service Object for Thermal Printer Cash Drawers ver 1.14.*.* | |
| DeviceServiceVersion | R | ✓ | 1014*** | |
| PhysicalDeviceDescription | R | ✓ | CITIZEN Thermal POSPrinter Cash Drawer * | |
| PhysicalDeviceName | R | ✓ | CITIZEN CT-D151 Cash Drawer | |
| CapStatus | R | ✓ | | |
| CapStatusMultiDrawerDetect | R | ✓ | | |
| DrawerOpened | R | ✓ | | |

CT-E301

| Property | Attribute | Status of support by the driver (CITIZEN E301 Cash Drawer *) | | Notes |
|----------------------------|-----------|---|--|--|
| AutoDisable | R/W | | Not applicable with Drawer | |
| CapCompareFirmwareVersion | R | | false | Not supported |
| CapPowerReporting | R | ✓ | JPOS_PR_NONE | Refer to 5.4.1 CapPowerReporting/ PowerNotify/ PowerState Property |
| CapStatisticsReporting | R | | false | Not supported |
| CapUpdateFirmware | R | | false | Not supported |
| CapUpdateStatistics | R | | false | Not supported |
| CheckHealthText | R | ✓ | | |
| Claimed | R | ✓ | | |
| DataCount | R | | Not applicable with Drawer | |
| DataEventEnabled | R/W | | Not applicable with Drawer | |
| DeviceEnabled | R/W | ✓ | | |
| FreezeEvents | R/W | ✓ | | |
| OpenResult | R | ✓ | | |
| OutputID | R | | Not applicable with Drawer | |
| PowerNotify | R/W | | JPOS_PN_DISABLE | Refer to 5.4.1 CapPowerReporting/ PowerNotify/ PowerState Property |
| PowerState | R | | JPOS_PS_UNKNOWN | Refer to 5.4.1 CapPowerReporting/ PowerNotify/ PowerState Property |
| State | R | ✓ | | |
| DeviceControlDescription | R | ✓ | JavaPOS CashDrawer Device Control | |
| DeviceControlVersion | R | ✓ | 1014000 | |
| DeviceServiceDescription | R | ✓ | CITIZEN Service Object for Thermal Printer Cash Drawers ver 1.14.*.* | |
| DeviceServiceVersion | R | ✓ | 1014*** | |
| PhysicalDeviceDescription | R | ✓ | CITIZEN Thermal POSPrinter Cash Drawer * | |
| PhysicalDeviceName | R | ✓ | CITIZEN CT-E301 Cash Drawer | |
| CapStatus | R | ✓ | | |
| CapStatusMultiDrawerDetect | R | ✓ | | |
| DrawerOpened | R | ✓ | | |

CT-E351

| Property | Attribute | Status of support by the driver (CITIZEN E351 Cash Drawer *) | | Notes |
|----------------------------|-----------|---|--|--|
| AutoDisable | R/W | | Not applicable with Drawer | |
| CapCompareFirmwareVersion | R | | false | Not supported |
| CapPowerReporting | R | ✓ | JPOS_PR_NONE | Refer to 5.4.1 CapPowerReporting/ PowerNotify/ PowerState Property |
| CapStatisticsReporting | R | | false | Not supported |
| CapUpdateFirmware | R | | false | Not supported |
| CapUpdateStatistics | R | | false | Not supported |
| CheckHealthText | R | ✓ | | |
| Claimed | R | ✓ | | |
| DataCount | R | | Not applicable with Drawer | |
| DataEventEnabled | R/W | | Not applicable with Drawer | |
| DeviceEnabled | R/W | ✓ | | |
| FreezeEvents | R/W | ✓ | | |
| OpenResult | R | ✓ | | |
| OutputID | R | | Not applicable with Drawer | |
| PowerNotify | R/W | | JPOS_PN_DISABLE | Refer to 5.4.1 CapPowerReporting/ PowerNotify/ PowerState Property |
| PowerState | R | | JPOS_PS_UNKNOWN | Refer to 5.4.1 CapPowerReporting/ PowerNotify/ PowerState Property |
| State | R | ✓ | | |
| DeviceControlDescription | R | ✓ | JavaPOS CashDrawer Device Control | |
| DeviceControlVersion | R | ✓ | 1014000 | |
| DeviceServiceDescription | R | ✓ | CITIZEN Service Object for Thermal Printer Cash Drawers ver 1.14.*.* | |
| DeviceServiceVersion | R | ✓ | 1014*** | |
| PhysicalDeviceDescription | R | ✓ | CITIZEN Thermal POSPrinter Cash Drawer * | |
| PhysicalDeviceName | R | ✓ | CITIZEN CT-E351 Cash Drawer | |
| CapStatus | R | ✓ | | |
| CapStatusMultiDrawerDetect | R | ✓ | | |
| DrawerOpened | R | ✓ | | |

CT-E601

| Property | Attribute | Status of support by the driver (CITIZEN E601 Cash Drawer *) | | Notes |
|----------------------------|-----------|--|--|--|
| AutoDisable | R/W | | Not applicable with Drawer | |
| CapCompareFirmwareVersion | R | | false | Not supported |
| CapPowerReporting | R | ✓ | JPOS_PR_NONE | Refer to 5.4.1 CapPowerReporting/ PowerNotify/ PowerState Property |
| CapStatisticsReporting | R | | false | Not supported |
| CapUpdateFirmware | R | | false | Not supported |
| CapUpdateStatistics | R | | false | Not supported |
| CheckHealthText | R | ✓ | | |
| Claimed | R | ✓ | | |
| DataCount | R | | Not applicable with Drawer | |
| DataEventEnabled | R/W | | Not applicable with Drawer | |
| DeviceEnabled | R/W | ✓ | | |
| FreezeEvents | R/W | ✓ | | |
| OpenResult | R | ✓ | | |
| OutputID | R | | Not applicable with Drawer | |
| PowerNotify | R/W | | JPOS_PN_DISABLE | Refer to 5.4.1 CapPowerReporting/ PowerNotify/ PowerState Property |
| PowerState | R | | JPOS_PS_UNKNOWN | Refer to 5.4.1 CapPowerReporting/ PowerNotify/ PowerState Property |
| State | R | ✓ | | |
| DeviceControlDescription | R | ✓ | JavaPOS CashDrawer Device Control | |
| DeviceControlVersion | R | ✓ | 1014000 | |
| DeviceServiceDescription | R | ✓ | CITIZEN Service Object for Thermal Printer Cash Drawers ver 1.14.*.* | |
| DeviceServiceVersion | R | ✓ | 1014*** | |
| PhysicalDeviceDescription | R | ✓ | CITIZEN Thermal POSPrinter Cash Drawer * | |
| PhysicalDeviceName | R | ✓ | CITIZEN CT-E601 Cash Drawer | |
| CapStatus | R | ✓ | | |
| CapStatusMultiDrawerDetect | R | ✓ | | |
| DrawerOpened | R | ✓ | | |

CT-E651

| Property | Attribute | Status of support by the driver (CITIZEN E651 Cash Drawer *) | | Notes |
|----------------------------|-----------|---|--|--|
| AutoDisable | R/W | | Not applicable with Drawer | |
| CapCompareFirmwareVersion | R | | false | Not supported |
| CapPowerReporting | R | ✓ | JPOS_PR_NONE | Refer to 5.4.1 CapPowerReporting/ PowerNotify/ PowerState Property |
| CapStatisticsReporting | R | | false | Not supported |
| CapUpdateFirmware | R | | false | Not supported |
| CapUpdateStatistics | R | | false | Not supported |
| CheckHealthText | R | ✓ | | |
| Claimed | R | ✓ | | |
| DataCount | R | | Not applicable with Drawer | |
| DataEventEnabled | R/W | | Not applicable with Drawer | |
| DeviceEnabled | R/W | ✓ | | |
| FreezeEvents | R/W | ✓ | | |
| OpenResult | R | ✓ | | |
| OutputID | R | | Not applicable with Drawer | |
| PowerNotify | R/W | | JPOS_PN_DISABLE | Refer to 5.4.1 CapPowerReporting/ PowerNotify/ PowerState Property |
| PowerState | R | | JPOS_PS_UNKNOWN | Refer to 5.4.1 CapPowerReporting/ PowerNotify/ PowerState Property |
| State | R | ✓ | | |
| DeviceControlDescription | R | ✓ | JavaPOS CashDrawer Device Control | |
| DeviceControlVersion | R | ✓ | 1014000 | |
| DeviceServiceDescription | R | ✓ | CITIZEN Service Object for Thermal Printer Cash Drawers ver 1.14.*.* | |
| DeviceServiceVersion | R | ✓ | 1014*** | |
| PhysicalDeviceDescription | R | ✓ | CITIZEN Thermal POSPrinter Cash Drawer * | |
| PhysicalDeviceName | R | ✓ | CITIZEN CT-E651 Cash Drawer | |
| CapStatus | R | ✓ | | |
| CapStatusMultiDrawerDetect | R | ✓ | | |
| DrawerOpened | R | ✓ | | |

CT-S251

| Property | Attribute | Status of support by the driver (CITIZEN S251 Cash Drawer *) | | Notes |
|----------------------------|-----------|---|--|--|
| AutoDisable | R/W | | Not applicable with Drawer | |
| CapCompareFirmwareVersion | R | | false | Not supported |
| CapPowerReporting | R | ✓ | JPOS_PR_NONE | Refer to 5.4.1 CapPowerReporting/ PowerNotify/ PowerState Property |
| CapStatisticsReporting | R | | false | Not supported |
| CapUpdateFirmware | R | | false | Not supported |
| CapUpdateStatistics | R | | false | Not supported |
| CheckHealthText | R | ✓ | | |
| Claimed | R | ✓ | | |
| DataCount | R | | Not applicable with Drawer | |
| DataEventEnabled | R/W | | Not applicable with Drawer | |
| DeviceEnabled | R/W | ✓ | | |
| FreezeEvents | R/W | ✓ | | |
| OpenResult | R | ✓ | | |
| OutputID | R | | Not applicable with Drawer | |
| PowerNotify | R/W | | JPOS_PN_DISABLE | Refer to 5.4.1 CapPowerReporting/ PowerNotify/ PowerState Property |
| PowerState | R | | JPOS_PS_UNKNOWN | Refer to 5.4.1 CapPowerReporting/ PowerNotify/ PowerState Property |
| State | R | ✓ | | |
| DeviceControlDescription | R | ✓ | JavaPOS CashDrawer Device Control | |
| DeviceControlVersion | R | ✓ | 1014000 | |
| DeviceServiceDescription | R | ✓ | CITIZEN Service Object for Thermal Printer Cash Drawers ver 1.14.*.* | |
| DeviceServiceVersion | R | ✓ | 1014*** | |
| PhysicalDeviceDescription | R | ✓ | CITIZEN Thermal POSPrinter Cash Drawer * | |
| PhysicalDeviceName | R | ✓ | CITIZEN CT-S251 Cash Drawer | |
| CapStatus | R | ✓ | | |
| CapStatusMultiDrawerDetect | R | ✓ | | |
| DrawerOpened | R | ✓ | | |

CT-S281

| Property | Attribute | Status of support by the driver (CITIZEN S281 Cash Drawer *) | | Notes |
|----------------------------|-----------|---|--|--|
| AutoDisable | R/W | | Not applicable with Drawer | |
| CapCompareFirmwareVersion | R | | false | Not supported |
| CapPowerReporting | R | ✓ | JPOS_PR_NONE | Refer to 5.4.1 CapPowerReporting/ PowerNotify/ PowerState Property |
| CapStatisticsReporting | R | | false | Not supported |
| CapUpdateFirmware | R | | false | Not supported |
| CapUpdateStatistics | R | | false | Not supported |
| CheckHealthText | R | ✓ | | |
| Claimed | R | ✓ | | |
| DataCount | R | | Not applicable with Drawer | |
| DataEventEnabled | R/W | | Not applicable with Drawer | |
| DeviceEnabled | R/W | ✓ | | |
| FreezeEvents | R/W | ✓ | | |
| OpenResult | R | ✓ | | |
| OutputID | R | | Not applicable with Drawer | |
| PowerNotify | R/W | | JPOS_PN_DISABLE | Refer to 5.4.1 CapPowerReporting/ PowerNotify/ PowerState Property |
| PowerState | R | | JPOS_PS_UNKNOWN | Refer to 5.4.1 CapPowerReporting/ PowerNotify/ PowerState Property |
| State | R | ✓ | | |
| DeviceControlDescription | R | ✓ | JavaPOS CashDrawer Device Control | |
| DeviceControlVersion | R | ✓ | 1014000 | |
| DeviceServiceDescription | R | ✓ | CITIZEN Service Object for Thermal Printer Cash Drawers ver 1.14.*.* | |
| DeviceServiceVersion | R | ✓ | 1014*** | |
| PhysicalDeviceDescription | R | ✓ | CITIZEN Thermal POSPrinter Cash Drawer * | |
| PhysicalDeviceName | R | ✓ | CITIZEN CT-S281 Cash Drawer | |
| CapStatus | R | ✓ | | |
| CapStatusMultiDrawerDetect | R | ✓ | | |
| DrawerOpened | R | ✓ | | |

CT-S310

| Property | Attribute | Status of support by the driver (CITIZEN S310 Cash Drawer *) | | Notes |
|----------------------------|-----------|---|--|--|
| AutoDisable | R/W | | Not applicable with Drawer | |
| CapCompareFirmwareVersion | R | | false | Not supported |
| CapPowerReporting | R | ✓ | JPOS_PR_NONE | Refer to 5.4.1 CapPowerReporting/ PowerNotify/ PowerState Property |
| CapStatisticsReporting | R | | false | Not supported |
| CapUpdateFirmware | R | | false | Not supported |
| CapUpdateStatistics | R | | false | Not supported |
| CheckHealthText | R | ✓ | | |
| Claimed | R | ✓ | | |
| DataCount | R | | Not applicable with Drawer | |
| DataEventEnabled | R/W | | Not applicable with Drawer | |
| DeviceEnabled | R/W | ✓ | | |
| FreezeEvents | R/W | ✓ | | |
| OpenResult | R | ✓ | | |
| OutputID | R | | Not applicable with Drawer | |
| PowerNotify | R/W | | JPOS_PN_DISABLE | Refer to 5.4.1 CapPowerReporting/ PowerNotify/ PowerState Property |
| PowerState | R | | JPOS_PS_UNKNOWN | Refer to 5.4.1 CapPowerReporting/ PowerNotify/ PowerState Property |
| State | R | ✓ | | |
| DeviceControlDescription | R | ✓ | JavaPOS CashDrawer Device Control | |
| DeviceControlVersion | R | ✓ | 1014000 | |
| DeviceServiceDescription | R | ✓ | CITIZEN Service Object for Thermal Printer Cash Drawers ver 1.14.*.* | |
| DeviceServiceVersion | R | ✓ | 1014*** | |
| PhysicalDeviceDescription | R | ✓ | CITIZEN Thermal POSPrinter Cash Drawer * | |
| PhysicalDeviceName | R | ✓ | CITIZEN CT-S310 Cash Drawer | |
| CapStatus | R | ✓ | | |
| CapStatusMultiDrawerDetect | R | ✓ | | |
| DrawerOpened | R | ✓ | | |

CT-S310II

| Property | Attribute | Status of support by the driver (CITIZEN S310II Cash Drawer *) | | Notes |
|----------------------------|-----------|---|--|--|
| AutoDisable | R/W | | Not applicable with Drawer | |
| CapCompareFirmwareVersion | R | | false | Not supported |
| CapPowerReporting | R | ✓ | JPOS_PR_NONE | Refer to 5.4.1 CapPowerReporting/ PowerNotify/ PowerState Property |
| CapStatisticsReporting | R | | false | Not supported |
| CapUpdateFirmware | R | | false | Not supported |
| CapUpdateStatistics | R | | false | Not supported |
| CheckHealthText | R | ✓ | | |
| Claimed | R | ✓ | | |
| DataCount | R | | Not applicable with Drawer | |
| DataEventEnabled | R/W | | Not applicable with Drawer | |
| DeviceEnabled | R/W | ✓ | | |
| FreezeEvents | R/W | ✓ | | |
| OpenResult | R | ✓ | | |
| OutputID | R | | Not applicable with Drawer | |
| PowerNotify | R/W | | JPOS_PN_DISABLE | Refer to 5.4.1 CapPowerReporting/ PowerNotify/ PowerState Property |
| PowerState | R | | JPOS_PS_UNKNOWN | Refer to 5.4.1 CapPowerReporting/ PowerNotify/ PowerState Property |
| State | R | ✓ | | |
| DeviceControlDescription | R | ✓ | JavaPOS CashDrawer Device Control | |
| DeviceControlVersion | R | ✓ | 1014000 | |
| DeviceServiceDescription | R | ✓ | CITIZEN Service Object for Thermal Printer Cash Drawers ver 1.14.*.* | |
| DeviceServiceVersion | R | ✓ | 1014*** | |
| PhysicalDeviceDescription | R | ✓ | CITIZEN Thermal POSPrinter Cash Drawer * | |
| PhysicalDeviceName | R | ✓ | CITIZEN CT-S310II Cash Drawer | |
| CapStatus | R | ✓ | | |
| CapStatusMultiDrawerDetect | R | ✓ | | |
| DrawerOpened | R | ✓ | | |

CT-S601/651/801/851

| Property | Attribute | Status of support by the driver (CITIZEN S601 Cash Drawer *, CITIZEN S651 Cash Drawer *, CITIZEN S801 Cash Drawer *, CITIZEN S851 Cash Drawer *) | Notes |
|----------------------------|-----------|--|--|
| AutoDisable | R/W | Not applicable with Drawer | |
| CapCompareFirmwareVersion | R | false | Not supported |
| CapPowerReporting | R | ✓ JPOS_PR_NONE | Refer to 5.4.1 CapPowerReporting/ PowerNotify/ PowerState Property |
| CapStatisticsReporting | R | false | Not supported |
| CapUpdateFirmware | R | false | Not supported |
| CapUpdateStatistics | R | false | Not supported |
| CheckHealthText | R | ✓ | |
| Claimed | R | ✓ | |
| DataCount | R | Not applicable with Drawer | |
| DataEventEnabled | R/W | Not applicable with Drawer | |
| DeviceEnabled | R/W | ✓ | |
| FreezeEvents | R/W | ✓ | |
| OpenResult | R | ✓ | |
| OutputID | R | Not applicable with Drawer | |
| PowerNotify | R/W | JPOS_PN_DISABLE | Refer to 5.4.1 CapPowerReporting/ PowerNotify/ PowerState Property |
| PowerState | R | JPOS_PS_UNKNOWN | Refer to 5.4.1 CapPowerReporting/ PowerNotify/ PowerState Property |
| State | R | ✓ | |
| DeviceControlDescription | R | ✓ JavaPOS CashDrawer Device Control | |
| DeviceControlVersion | R | ✓ 1014000 | |
| DeviceServiceDescription | R | ✓ CITIZEN Service Object for Thermal Printer Cash Drawers ver 1.14.*.* | |
| DeviceServiceVersion | R | ✓ 1014*** | |
| PhysicalDeviceDescription | R | ✓ CITIZEN Thermal POSPrinter Cash Drawer * | |
| PhysicalDeviceName | R | ✓ CITIZEN CT-S601 Cash Drawer CITIZEN CT-S651 Cash Drawer CITIZEN CT-S801 Cash Drawer CITIZEN CT-S851 Cash Drawer | |
| CapStatus | R | ✓ | |
| CapStatusMultiDrawerDetect | R | ✓ | |
| DrawerOpened | R | ✓ | |

CT-S601II/651II/801II/851II

| Property | Attribute | Status of support by the driver (CITIZEN S601II Cash Drawer *, CITIZEN S651II Cash Drawer *, CITIZEN S801II Cash Drawer *, CITIZEN S851II Cash Drawer *) | Notes |
|----------------------------|-----------|--|--|
| AutoDisable | R/W | | Not applicable with Drawer |
| CapCompareFirmwareVersion | R | false | Not supported |
| CapPowerReporting | R | ✓ | JPOS_PR_NONE Refer to 5.4.1 CapPowerReporting/PowerNotify/PowerState Property |
| CapStatisticsReporting | R | false | Not supported |
| CapUpdateFirmware | R | false | Not supported |
| CapUpdateStatistics | R | false | Not supported |
| CheckHealthText | R | ✓ | |
| Claimed | R | ✓ | |
| DataCount | R | | Not applicable with Drawer |
| DataEventEnabled | R/W | | Not applicable with Drawer |
| DeviceEnabled | R/W | ✓ | |
| FreezeEvents | R/W | ✓ | |
| OpenResult | R | ✓ | |
| OutputID | R | | Not applicable with Drawer |
| PowerNotify | R/W | | JPOS_PN_DISABLE Refer to 5.4.1 CapPowerReporting/PowerNotify/PowerState Property |
| PowerState | R | | JPOS_PS_UNKNOWN Refer to 5.4.1 CapPowerReporting/PowerNotify/PowerState Property |
| State | R | ✓ | |
| DeviceControlDescription | R | ✓ | JavaPOS CashDrawer Device Control |
| DeviceControlVersion | R | ✓ | 1014000 |
| DeviceServiceDescription | R | ✓ | CITIZEN Service Object for Thermal Printer Cash Drawers ver 1.14.*.* |
| DeviceServiceVersion | R | ✓ | 1014*** |
| PhysicalDeviceDescription | R | ✓ | CITIZEN Thermal POSPrinter Cash Drawer * |
| PhysicalDeviceName | R | ✓ | CITIZEN CT-S601II Cash Drawer CITIZEN CT-S651II Cash Drawer CITIZEN CT-S801II Cash Drawer CITIZEN CT-S851II Cash Drawer |
| CapStatus | R | ✓ | |
| CapStatusMultiDrawerDetect | R | ✓ | |
| DrawerOpened | R | ✓ | |

CT-S801III/851III

| Property | Attribute | Status of support by the driver (CITIZEN S801III Cash Drawer *, CITIZEN S851III Cash Drawer *) | | Notes |
|----------------------------|-----------|--|--|--|
| AutoDisable | R/W | | Not applicable with Drawer | |
| CapCompareFirmwareVersion | R | | false | Not supported |
| CapPowerReporting | R | ✓ | JPOS_PR_NONE | Refer to 5.4.1 CapPowerReporting/ PowerNotify/ PowerState Property |
| CapStatisticsReporting | R | | false | Not supported |
| CapUpdateFirmware | R | | false | Not supported |
| CapUpdateStatistics | R | | false | Not supported |
| CheckHealthText | R | ✓ | | |
| Claimed | R | ✓ | | |
| DataCount | R | | Not applicable with Drawer | |
| DataEventEnabled | R/W | | Not applicable with Drawer | |
| DeviceEnabled | R/W | ✓ | | |
| FreezeEvents | R/W | ✓ | | |
| OpenResult | R | ✓ | | |
| OutputID | R | | Not applicable with Drawer | |
| PowerNotify | R/W | | JPOS_PN_DISABLE | Refer to 5.4.1 CapPowerReporting/ PowerNotify/ PowerState Property |
| PowerState | R | | JPOS_PS_UNKNOWN | Refer to 5.4.1 CapPowerReporting/ PowerNotify/ PowerState Property |
| State | R | ✓ | | |
| DeviceControlDescription | R | ✓ | JavaPOS CashDrawer Device Control | |
| DeviceControlVersion | R | ✓ | 1014000 | |
| DeviceServiceDescription | R | ✓ | CITIZEN Service Object for Thermal Printer Cash Drawers ver 1.14.*.* | |
| DeviceServiceVersion | R | ✓ | 1014*** | |
| PhysicalDeviceDescription | R | ✓ | CITIZEN Thermal POSPrinter Cash Drawer * | |
| PhysicalDeviceName | R | ✓ | CITIZEN CT-S801III Cash Drawer CITIZEN CT-S851III Cash Drawer | |
| CapStatus | R | ✓ | | |
| CapStatusMultiDrawerDetect | R | ✓ | | |
| DrawerOpened | R | ✓ | | |

CT-S751

| Property | Attribute | Status of support by the driver (CITIZEN S751 *) | | Notes |
|----------------------------|-----------|--|--|--|
| AutoDisable | R/W | | Not applicable with Drawer | |
| CapCompareFirmwareVersion | R | | false | Not supported |
| CapPowerReporting | R | ✓ | JPOS_PR_NONE | Refer to 5.4.1 CapPowerReporting/PowerNotify/PowerState Property |
| CapStatisticsReporting | R | | false | Not supported |
| CapUpdateFirmware | R | | false | Not supported |
| CapUpdateStatistics | R | | false | Not supported |
| CheckHealthText | R | ✓ | | |
| Claimed | R | ✓ | | |
| DataCount | R | | Not applicable with Drawer | |
| DataEventEnabled | R/W | | Not applicable with Drawer | |
| DeviceEnabled | R/W | ✓ | | |
| FreezeEvents | R/W | ✓ | | |
| OpenResult | R | ✓ | | |
| OutputID | R | | Not applicable with Drawer | |
| PowerNotify | R/W | | JPOS_PN_DISABLE | Refer to 5.4.1 CapPowerReporting/PowerNotify/PowerState Property |
| PowerState | R | | JPOS_PS_UNKNOWN | Refer to 5.4.1 CapPowerReporting/PowerNotify/PowerState Property |
| State | R | ✓ | | |
| DeviceControlDescription | R | ✓ | JavaPOS CashDrawer Device Control | |
| DeviceControlVersion | R | ✓ | 1014000 | |
| DeviceServiceDescription | R | ✓ | CITIZEN Service Object for Thermal Printer Cash Drawers ver 1.14.*.* | |
| DeviceServiceVersion | R | ✓ | 1014*** | |
| PhysicalDeviceDescription | R | ✓ | CITIZEN Thermal POSPrinter Cash Drawer * | |
| PhysicalDeviceName | R | ✓ | CITIZEN CT-S751 Cash Drawer | |
| CapStatus | R | ✓ | | |
| CapStatusMultiDrawerDetect | R | ✓ | | |
| DrawerOpened | R | ✓ | | |

CT-S2000

| Property | Attribute | Status of support by the driver (CITIZEN S2000 *) | | Notes |
|----------------------------|-----------|---|--|--|
| AutoDisable | R/W | | Not applicable with Drawer | |
| CapCompareFirmwareVersion | R | | false | Not supported |
| CapPowerReporting | R | ✓ | JPOS_PR_NONE | Refer to 5.4.1 CapPowerReporting/PowerNotify/PowerState Property |
| CapStatisticsReporting | R | | false | Not supported |
| CapUpdateFirmware | R | | false | Not supported |
| CapUpdateStatistics | R | | false | Not supported |
| CheckHealthText | R | ✓ | | |
| Claimed | R | ✓ | | |
| DataCount | R | | Not applicable with Drawer | |
| DataEventEnabled | R/W | | Not applicable with Drawer | |
| DeviceEnabled | R/W | ✓ | | |
| FreezeEvents | R/W | ✓ | | |
| OpenResult | R | ✓ | | |
| OutputID | R | | Not applicable with Drawer | |
| PowerNotify | R/W | | JPOS_PN_DISABLE | Refer to 5.4.1 CapPowerReporting/PowerNotify/PowerState Property |
| PowerState | R | | JPOS_PS_UNKNOWN | Refer to 5.4.1 CapPowerReporting/PowerNotify/PowerState Property |
| State | R | ✓ | | |
| DeviceControlDescription | R | ✓ | JavaPOS CashDrawer Device Control | |
| DeviceControlVersion | R | ✓ | 1014000 | |
| DeviceServiceDescription | R | ✓ | CITIZEN Service Object for Thermal Printer Cash Drawers ver 1.14.*.* | |
| DeviceServiceVersion | R | ✓ | 1014*** | |
| PhysicalDeviceDescription | R | ✓ | CITIZEN Thermal POSPrinter Cash Drawer * | |
| PhysicalDeviceName | R | ✓ | CITIZEN CT-S2000 Cash Drawer | |
| CapStatus | R | ✓ | | |
| CapStatusMultiDrawerDetect | R | ✓ | | |
| DrawerOpened | R | ✓ | | |

CT-S4000

| Property | Attribute | Status of support by the driver (CITIZEN S4000 *) | | Notes |
|----------------------------|-----------|---|--|--|
| AutoDisable | R/W | | Not applicable with Drawer | |
| CapCompareFirmwareVersion | R | | false | Not supported |
| CapPowerReporting | R | ✓ | JPOS_PR_NONE | Refer to 5.4.1 CapPowerReporting/PowerNotify/PowerState Property |
| CapStatisticsReporting | R | | false | Not supported |
| CapUpdateFirmware | R | | false | Not supported |
| CapUpdateStatistics | R | | false | Not supported |
| CheckHealthText | R | ✓ | | |
| Claimed | R | ✓ | | |
| DataCount | R | | Not applicable with Drawer | |
| DataEventEnabled | R/W | | Not applicable with Drawer | |
| DeviceEnabled | R/W | ✓ | | |
| FreezeEvents | R/W | ✓ | | |
| OpenResult | R | ✓ | | |
| OutputID | R | | Not applicable with Drawer | |
| PowerNotify | R/W | | JPOS_PN_DISABLE | Refer to 5.4.1 CapPowerReporting/PowerNotify/PowerState Property |
| PowerState | R | | JPOS_PS_UNKNOWN | Refer to 5.4.1 CapPowerReporting/PowerNotify/PowerState Property |
| State | R | ✓ | | |
| DeviceControlDescription | R | ✓ | JavaPOS CashDrawer Device Control | |
| DeviceControlVersion | R | ✓ | 1014000 | |
| DeviceServiceDescription | R | ✓ | CITIZEN Service Object for Thermal Printer Cash Drawers ver 1.14.*.* | |
| DeviceServiceVersion | R | ✓ | 1014*** | |
| PhysicalDeviceDescription | R | ✓ | CITIZEN Thermal POSPrinter Cash Drawer * | |
| PhysicalDeviceName | R | ✓ | CITIZEN CT-S4000 Cash Drawer | |
| CapStatus | R | ✓ | | |
| CapStatusMultiDrawerDetect | R | ✓ | | |
| DrawerOpened | R | ✓ | | |

CT-S4500

| Property | Attribute | Status of support by the driver (CITIZEN S4500 *) | | Notes |
|----------------------------|-----------|---|--|--|
| AutoDisable | R/W | | Not applicable with Drawer | |
| CapCompareFirmwareVersion | R | | false | Not supported |
| CapPowerReporting | R | ✓ | JPOS_PR_NONE | Refer to 5.4.1 CapPowerReporting/PowerNotify/PowerState Property |
| CapStatisticsReporting | R | | false | Not supported |
| CapUpdateFirmware | R | | false | Not supported |
| CapUpdateStatistics | R | | false | Not supported |
| CheckHealthText | R | ✓ | | |
| Claimed | R | ✓ | | |
| DataCount | R | | Not applicable with Drawer | |
| DataEventEnabled | R/W | | Not applicable with Drawer | |
| DeviceEnabled | R/W | ✓ | | |
| FreezeEvents | R/W | ✓ | | |
| OpenResult | R | ✓ | | |
| OutputID | R | | Not applicable with Drawer | |
| PowerNotify | R/W | | JPOS_PN_DISABLE | Refer to 5.4.1 CapPowerReporting/PowerNotify/PowerState Property |
| PowerState | R | | JPOS_PS_UNKNOWN | Refer to 5.4.1 CapPowerReporting/PowerNotify/PowerState Property |
| State | R | ✓ | | |
| DeviceControlDescription | R | ✓ | JavaPOS CashDrawer Device Control | |
| DeviceControlVersion | R | ✓ | 1014000 | |
| DeviceServiceDescription | R | ✓ | CITIZEN Service Object for Thermal Printer Cash Drawers ver 1.14.*.* | |
| DeviceServiceVersion | R | ✓ | 1014*** | |
| PhysicalDeviceDescription | R | ✓ | CITIZEN Thermal POSPrinter Cash Drawer * | |
| PhysicalDeviceName | R | ✓ | CITIZEN CT-S4500 Cash Drawer | |
| CapStatus | R | ✓ | | |
| CapStatusMultiDrawerDetect | R | ✓ | | |
| DrawerOpened | R | ✓ | | |

5.3.Cash Drawer Event Relations

CT-D101

| Event | Status of support by the driver (CITIZEN D101 Cash Drawer *) | | Notes |
|---------------------|---|----------------------------|-------|
| DataEvent | | Not applicable with Drawer | |
| DirectIOEvent | | Not supported | |
| ErrorEvent | | Not applicable with Drawer | |
| OutputCompleteEvent | | Not applicable with Drawer | |
| StatusUpdateEvent | ✓ | | |

CT-D150

| Event | Status of support by the driver (CITIZEN D150 Cash Drawer *) | | Notes |
|---------------------|---|----------------------------|-------|
| DataEvent | | Not applicable with Drawer | |
| DirectIOEvent | | Not supported | |
| ErrorEvent | | Not applicable with Drawer | |
| OutputCompleteEvent | | Not applicable with Drawer | |
| StatusUpdateEvent | ✓ | | |

CT-D151

| Event | Status of support by the driver (CITIZEN D151 Cash Drawer *) | | Notes |
|---------------------|---|----------------------------|-------|
| DataEvent | | Not applicable with Drawer | |
| DirectIOEvent | | Not supported | |
| ErrorEvent | | Not applicable with Drawer | |
| OutputCompleteEvent | | Not applicable with Drawer | |
| StatusUpdateEvent | ✓ | | |

CT-E301

| Event | Status of support by the driver (CITIZEN E301 Cash Drawer *) | | Notes |
|---------------------|---|----------------------------|-------|
| DataEvent | | Not applicable with Drawer | |
| DirectIOEvent | | Not supported | |
| ErrorEvent | | Not applicable with Drawer | |
| OutputCompleteEvent | | Not applicable with Drawer | |
| StatusUpdateEvent | ✓ | | |

CT-E351

| Event | Status of support by the driver (CITIZEN E351 Cash Drawer *) | | Notes |
|---------------------|---|----------------------------|-------|
| DataEvent | | Not applicable with Drawer | |
| DirectIOEvent | | Not supported | |
| ErrorEvent | | Not applicable with Drawer | |
| OutputCompleteEvent | | Not applicable with Drawer | |
| StatusUpdateEvent | ✓ | | |

CT-E601

| Event | Status of support by the driver (CITIZEN E601 Cash Drawer *) | Notes |
|---------------------|---|-------|
| DataEvent | Not applicable with Drawer | |
| DirectIOEvent | Not supported | |
| ErrorEvent | Not applicable with Drawer | |
| OutputCompleteEvent | Not applicable with Drawer | |
| StatusUpdateEvent | ✓ | |

CT-E651

| Event | Status of support by the driver (CITIZEN E651 Cash Drawer *) | Notes |
|---------------------|---|-------|
| DataEvent | Not applicable with Drawer | |
| DirectIOEvent | Not supported | |
| ErrorEvent | Not applicable with Drawer | |
| OutputCompleteEvent | Not applicable with Drawer | |
| StatusUpdateEvent | ✓ | |

CT-S251

| Event | Status of support by the driver (CITIZEN S251 Cash Drawer *) | Notes |
|---------------------|---|-------|
| DataEvent | Not applicable with Drawer | |
| DirectIOEvent | Not supported | |
| ErrorEvent | Not applicable with Drawer | |
| OutputCompleteEvent | Not applicable with Drawer | |
| StatusUpdateEvent | ✓ | |

CT-S281

| Event | Status of support by the driver (CITIZEN S281 Cash Drawer *) | Notes |
|---------------------|---|-------|
| DataEvent | Not applicable with Drawer | |
| DirectIOEvent | Not supported | |
| ErrorEvent | Not applicable with Drawer | |
| OutputCompleteEvent | Not applicable with Drawer | |
| StatusUpdateEvent | ✓ | |

CT-S310

| Event | Status of support by the driver (CITIZEN S310 Cash Drawer *) | Notes |
|---------------------|---|-------|
| DataEvent | Not applicable with Drawer | |
| DirectIOEvent | Not supported | |
| ErrorEvent | Not applicable with Drawer | |
| OutputCompleteEvent | Not applicable with Drawer | |
| StatusUpdateEvent | ✓ | |

CT-S310II

| Event | Status of support by the driver (CITIZEN S310II Cash Drawer *) | Notes |
|---------------------|---|-------|
| DataEvent | Not applicable with Drawer | |
| DirectIOEvent | Not supported | |
| ErrorEvent | Not applicable with Drawer | |
| OutputCompleteEvent | Not applicable with Drawer | |
| StatusUpdateEvent | ✓ | |

CT-S601/651/801/851

| Event | Status of support by the driver (CITIZEN S601 Cash Drawer *, CITIZEN S651 Cash Drawer *, CITIZEN S801 Cash Drawer *, CITIZEN S851 Cash Drawer *) | Notes |
|---------------------|--|-------|
| DataEvent | Not applicable with Drawer | |
| DirectIOEvent | Not supported | |
| ErrorEvent | Not applicable with Drawer | |
| OutputCompleteEvent | Not applicable with Drawer | |
| StatusUpdateEvent | ✓ | |

CT-S601II/651II/801II/851II

| Event | Status of support by the driver (CITIZEN S601II Cash Drawer *, CITIZEN S651II Cash Drawer *, CITIZEN S801II Cash Drawer *, CITIZEN S851II Cash Drawer *) | Notes |
|---------------------|--|-------|
| DataEvent | Not applicable with Drawer | |
| DirectIOEvent | Not supported | |
| ErrorEvent | Not applicable with Drawer | |
| OutputCompleteEvent | Not applicable with Drawer | |
| StatusUpdateEvent | ✓ | |

CT-S801III/851III

| Event | Status of support by the driver (CITIZEN S801III Cash Drawer *, CITIZEN S851III Cash Drawer *) | Notes |
|---------------------|--|-------|
| DataEvent | Not applicable with Drawer | |
| DirectIOEvent | Not supported | |
| ErrorEvent | Not applicable with Drawer | |
| OutputCompleteEvent | Not applicable with Drawer | |
| StatusUpdateEvent | ✓ | |

CT-S751

| Event | Status of support by the driver (CITIZEN S751 Cash Drawer *) | Notes |
|---------------------|---|-------|
| DataEvent | Not applicable with Drawer | |
| DirectIOEvent | Not supported | |
| ErrorEvent | Not applicable with Drawer | |
| OutputCompleteEvent | Not applicable with Drawer | |
| StatusUpdateEvent | ✓ | |

CT-S2000

| Event | Status of support by the driver (CITIZEN S2000 Cash Drawer *) | | Notes |
|---------------------|--|----------------------------|-------|
| DataEvent | | Not applicable with Drawer | |
| DirectIOEvent | | Not supported | |
| ErrorEvent | | Not applicable with Drawer | |
| OutputCompleteEvent | | Not applicable with Drawer | |
| StatusUpdateEvent | ✓ | | |

CT-S4000

| Event | Status of support by the driver (CITIZEN S4000 Cash Drawer *) | | Notes |
|---------------------|--|----------------------------|-------|
| DataEvent | | Not applicable with Drawer | |
| DirectIOEvent | | Not supported | |
| ErrorEvent | | Not applicable with Drawer | |
| OutputCompleteEvent | | Not applicable with Drawer | |
| StatusUpdateEvent | ✓ | | |

CT-S4500

| Event | Status of support by the driver (CITIZEN S4500 Cash Drawer *) | | Notes |
|---------------------|--|----------------------------|-------|
| DataEvent | | Not applicable with Drawer | |
| DirectIOEvent | | Not supported | |
| ErrorEvent | | Not applicable with Drawer | |
| OutputCompleteEvent | | Not applicable with Drawer | |
| StatusUpdateEvent | ✓ | | |

5.4.Cash Drawer Precautions

5.4.1 CapPowerReporting / PowerNotify / PowerState Property

This service object supports only cash drawer connected to the drawer kick connector at the back of the printer. Therefore the value of the CapPowerReporting property shall be "JPOS_PR_NONE". (The power state can not be acquired with the PowerState property.)

5.4.2 CapStatusMultiDrawerDetect Property

Two cash drawers can be connected by using Y-Shape cable to drawer kick connector at this service object but individual detection of cash drawer open/close situation is not possible. For this reason, CapStatusMultiDrawerDetect Property value becomes "FALSE" .

When CapStatusMultiDrawerDetect Property is "FALSE", only the following status is informed.

- a) All cash drawers are closed.
- b) One or more cash drawer(s) is open.

In addition, each [Pin 3 Status of Drawer Opened (Pin3)] should be set in the same way when registering multiple numbers of cash drawers.

CITIZEN JavaPOS DRIVER 1.14 Application Development Guide

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