

# CITIZEN

## **JavaPOS DRIVER 1.14**

### **Setup Guide**

**For Ver. 1.14.0.3**

**CITIZEN SYSTEMS JAPAN CO., LTD.**

## **Revision Record**

Date	Version	Description
May 7, 2010	1.00	New issue
Oct 8, 2010	1.01	<ul style="list-style-type: none"> <li>- Add Windows7-32bit to Supported Operating systems.</li> <li>- Add note about Java version.</li> <li>- Update as follows accompanied by memory switch change for printer setting; Add Full Col Print Change CBM1000-compatible mode</li> </ul>
Apr 5, 2011	1.02	<ul style="list-style-type: none"> <li>- The CT-S310II model was added to each item.</li> <li>- USB Interface Connection was changed.</li> </ul>
Oct 31, 2011	1.11.2.6	<ul style="list-style-type: none"> <li>- Version number is changed to same version as driver itself.</li> <li>- Added explanation of the tested Linux OS.</li> <li>- Added explanation of Java Virtual Machine.</li> <li>- Added explanation of USB Interface Connection of the Linux environment.</li> <li>- Release Notes and Library files were added to installation structure.</li> </ul>
Mar 26, 2012	1.11.2.7	<ul style="list-style-type: none"> <li>- The CD-S500 model was added to each item.</li> </ul>
Mar 11, 2013	1.11.2.8	<ul style="list-style-type: none"> <li>- Changed the installation files of this product.</li> <li>- Changed the jpos.xml setting examples.</li> </ul>
Jan 17, 2014	1.11.3.0	<ul style="list-style-type: none"> <li>- Added Windows8/8.1 to Operating systems.</li> <li>- Added CT-S281BT/BD to the supported models.</li> </ul>
Feb 16, 2015	1.11.3.2	<ul style="list-style-type: none"> <li>- The CT-S251, CT-S601II/651II/801II/851II model was added to each item.</li> </ul>
Sep 30, 2015	1.11.3.3	<ul style="list-style-type: none"> <li>- Added CT-S310II Ethernet to the supported models.</li> <li>- Added CD-S500 USB to the supported models of Linux.</li> <li>- Modified the access method to USB interface of Linux, deleted explanation of USB Connection of the Linux environment.</li> </ul>
Nov 28, 2016	1.11.3.4	<ul style="list-style-type: none"> <li>- Added Windows10 to Operating systems.</li> <li>- Added CT-D150/CT-E351 to the supported models.</li> </ul>
Jun 13, 2017	1.11.3.5	<ul style="list-style-type: none"> <li>- Added CT-D151/CT-E651 to the supported models.</li> </ul>
Jan 7, 2019	1.14.0.1	<ul style="list-style-type: none"> <li>- Supported JavaPOS1.14.</li> <li>- Added CT-S751, PMU2300III to the supported models.</li> </ul>
Feb 12, 2019	1.14.0.2	<ul style="list-style-type: none"> <li>- Added CT-S4500 to the supported models.</li> </ul>
Dec 9, 2020	1.14.0.3	<ul style="list-style-type: none"> <li>- Added OpenJDK to the tested version of Java virtual machines. (Page 5)</li> <li>- Added CT-D151-L/CT-E651-L/PMU3300 to the supported models. (Page 5,6,7,31)</li> <li>- Changed the installation configuration on Linux. (Page 13)</li> </ul>

**Notes**

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## 1. About the Product

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.

## 2. Operating Environments

### 2.1. Operating System

This driver supports the following operating systems.

- Windows XP, Windows7, Windows8, Windows8.1, Windows10
- Linux (32bit)

\* Tested Linux OS: CentOS6.10, Ubuntu16.04, Debian 10

### 2.2. Java Virtual Machine

This driver supports the following 32bit Java Virtual Machine.

- Version 5 and higher

\* Tested version

Oracle Java : Version 5 Update 22, Version 6 Update 45, Version 7 Update 72,  
Version 8 update 201  
OpenJDK : Version 11 (Linux)

### 2.3. Supported Models

Supported models of this product and the corresponding interface are as shown below.

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

#### Windows environment

Series of Model	Supported Model	Interface	Printer Functions
CT-D150	CT-D150	Serial, USB, Ethernet	Standard
CT-D151	CT-D151	Serial, USB, Ethernet, Bluetooth	Standard
	CT-D151-L		Blackmark/Label paper is supported
CT-E351	CT-E351	Serial, USB, Ethernet	Standard
CT-E651	CT-E651	Serial, USB, Ethernet, Bluetooth	Standard
	CT-E651-L		Blackmark/Label paper is supported
CT-S251	CT-S251	Serial, USB, Ethernet	Standard
CT-S281	CT-S281/281BT/281BD	Serial, USB, Bluetooth	Standard
	CT-S281-XL-M1		Blackmark paper is supported
	CT-S281-XL		Label paper is supported.
CT-S310	CT-S310	Serial, USB, Ethernet	Standard (Paper with blackmark on front side is supported.)
	CT-S310-M1/M2		Paper with blackmark on back side is supported.
CT-S310II	CT-S310II	Serial, USB, Ethernet	Standard
CT-S601/651/801/851	CT-S601/651/801/851	Serial, USB, Ethernet	Standard
	CT-S801/851-M		Blackmark paper is supported

	CT-S801-L		Label paper is supported.
CT-S601II/651II/801II/851II	CT-S601II/651II/801II/851II	Serial, USB, Ethernet, Bluetooth	Standard
	CT-S801II/851II-M		Blackmark paper is supported
	CT-S801II-L		Label paper is supported.
CT-S751	CT-S751	Serial, USB, Ethernet, Bluetooth	Standard
CT-S2000	CT-S2000	Serial, USB, Ethernet	Standard
	CT-S2000-M		Blackmark paper is supported
	CT-S2000-L		Label paper is supported.
CT-S4000	CT-S4000	Serial, USB, Ethernet	Standard (Paper with blackmark on front side is supported.)
	CT-S4000-M		Paper with blackmark on back side is supported.
	CT-S4000-L		Label paper is supported.
CT-S4500	CT-S4500	Serial, USB, Ethernet, Bluetooth	Standard (Blackmark/Label paper is supported)
PMU2300III	PMU2300III	Serial, USB	Standard (With presenter)
PMU3300	PMU3300	Serial, USB	Standard (With paper exit sensor)

### Linux environment

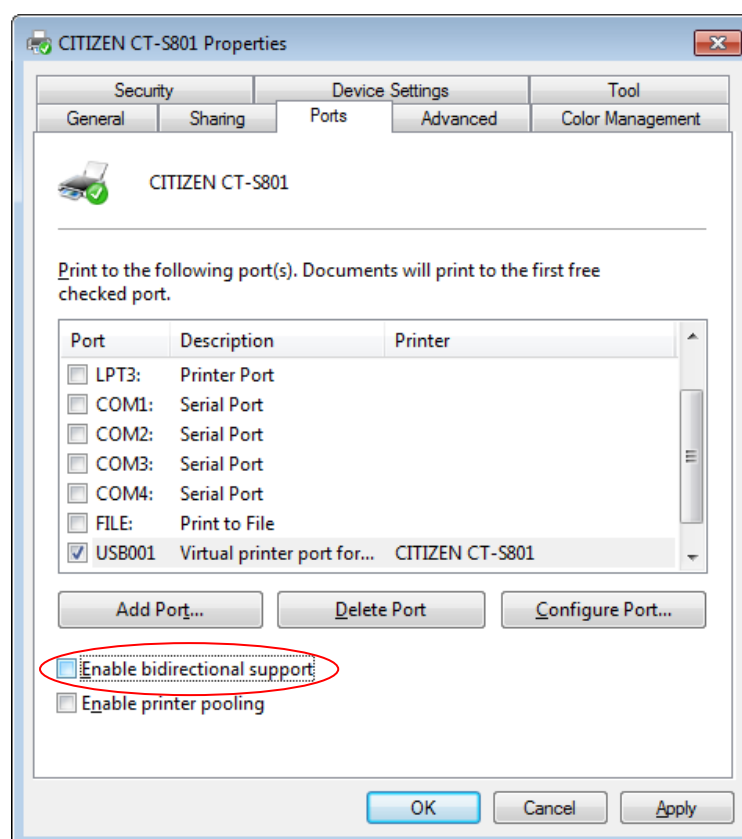
Series of Model	Supported Model	Interface	Printer Functions
CT-D150	CT-D150	Serial, USB, Ethernet	Standard
CT-D151	CT-D151	Serial, USB, Ethernet	Standard
	CT-D151-L		Blackmark/Label paper is supported
CT-E351	CT-E351	Serial, USB, Ethernet	Standard
CT-E651	CT-E651	Serial, USB, Ethernet	Standard
	CT-E651-L		Blackmark/Label paper is supported
CT-S251	CT-S251	Serial, USB, Ethernet	Standard
CT-S281	CT-S281/281BT/281BD	Serial, USB	Standard
	CT-S281-XL-M1		Blackmark paper is supported
	CT-S281-XL		Label paper is supported.
CT-S310	CT-S310	Serial, USB, Ethernet	Standard (Paper with blackmark on front side is supported.)
	CT-S310-M1/M2		Paper with blackmark on back side is supported.
CT-S310II	CT-S310II	Serial, USB, Ethernet	Standard
CT-S601/651/801/851	CT-S601/651/801/851	Serial, USB, Ethernet	Standard
	CT-S801/851-M		Blackmark paper is supported
	CT-S801-L		Label paper is supported.
CT-S601II/651II/801II/851II	CT-S601II/651II/801II/851II	Serial, USB, Ethernet	Standard
	CT-S801II/851II-M		Blackmark paper is supported
	CT-S801II-L		Label paper is supported.
CT-S751	CT-S751	Serial, USB, Ethernet	Standard
CT-S2000	CT-S2000	Serial, USB, Ethernet	Standard
	CT-S2000-M		Blackmark paper is supported
	CT-S2000-L		Label paper is supported.
CT-S4000	CT-S4000	Serial, USB, Ethernet	Standard (Paper with blackmark on

			front side is supported.)
	CT-S4000-M		Paper with blackmark on back side is supported.
	CT-S4000-L		Label paper is supported.
CT-S4500	CT-S4500	Serial, USB, Ethernet	Standard (Blackmark/Label paper is supported)
PMU2300III	PMU2300III	Serial, USB	Standard (With presenter)
PMU3300	PMU3300	Serial, USB	Standard (With paper exit sensor)

## 2.4. USB Interface Connection of the Windows environment

Installation of printer driver is required when using this product with USB connection of the Windows environment. Perform the installation of Windows Driver. Designate USB Interface Port (Virtual Printer Port for USB) which is designated by the Windows Driver at JavaPOS Driver side.

This driver cannot be used with the status function (language monitor) of the Windows driver that shows the printer status. When using this driver, **install the Windows driver without the status function, or uncheck the "Enable bidirectional support" option under the Ports setting of the Windows driver.** (Need to reboot the computer in order for the changes to take effect.)



## 3. Installation

### 3.1. Pre-Installation Instructions

Please download the file according to your operating system from the URL below to get the latest Java for your computer and install the Java run time environment in your system.

Note that Java version 5 or higher is required.

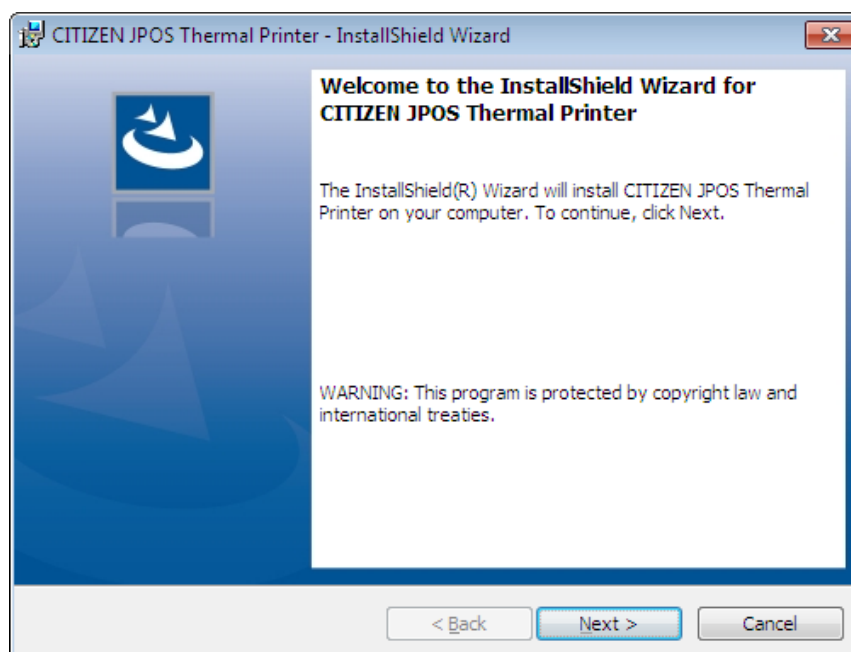
<http://www.java.com/> or Linux distribution package

Before installation, shut down all applications in operation.

The installer should be run with Administrator (Windows) or root (Linux) privileges.

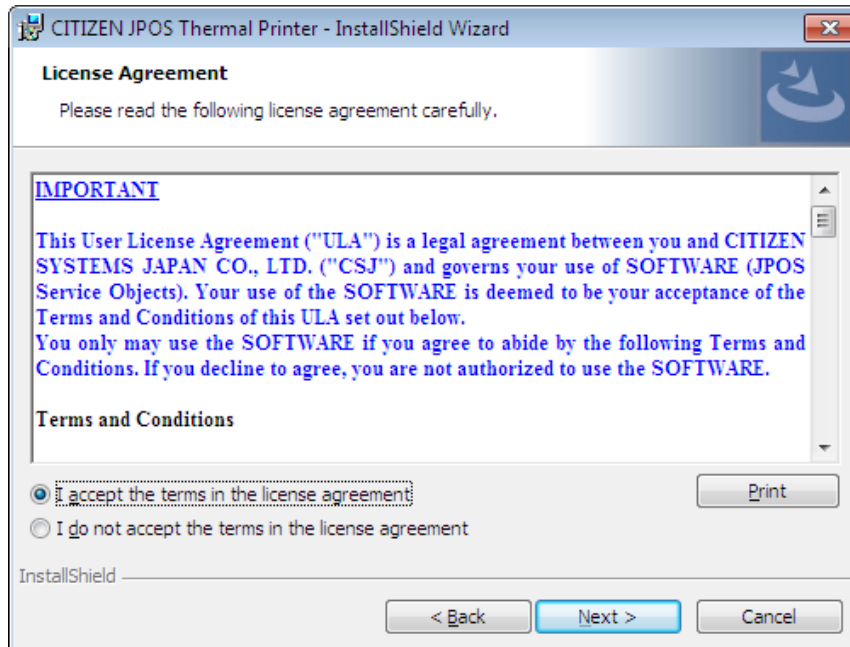
### 3.2. Installation Steps for Windows

- 1) The installer for Windows is "CSJ\_JPOSxxxxx\_setupEN.exe" (xxxxx is version number).  
To run the installer, double click on it. After starting, follow the installation procedure in accordance with the dialog.
- 2) Setup wizard starts. Click [Next].

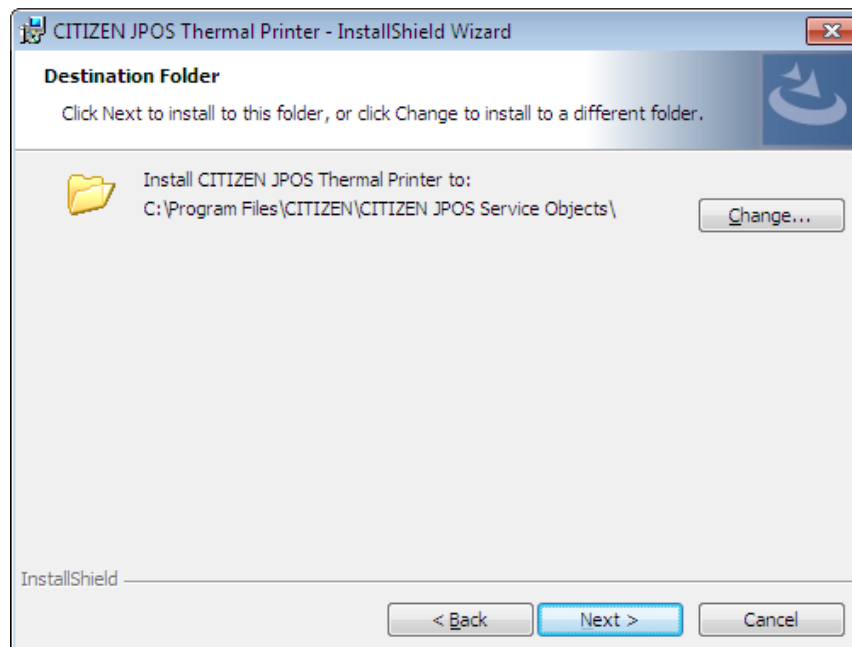




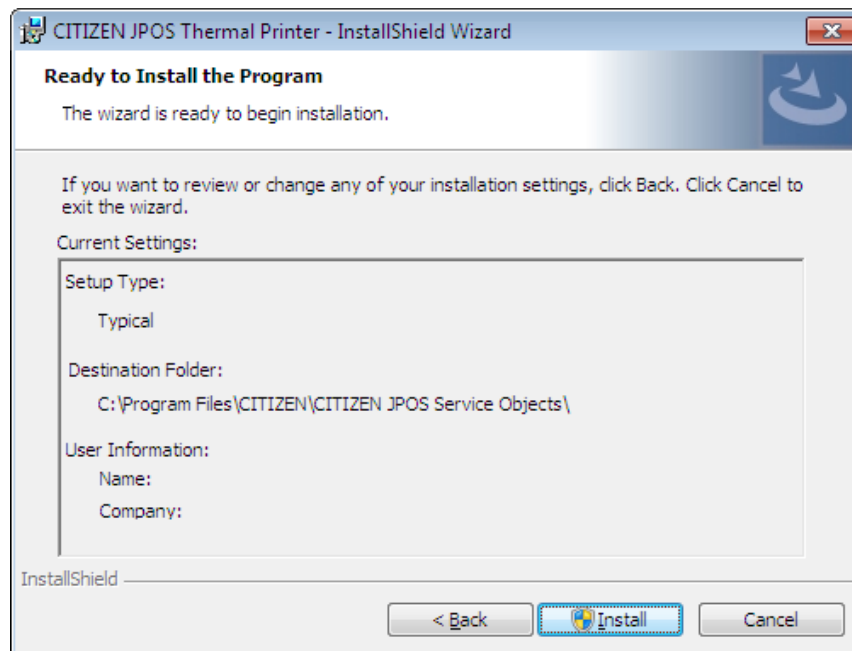
- 3) "License Agreement" window is displayed. If you agree with the product license agreement, select "I accept the terms in the license agreement" and click [Next]. If you do not agree with the product license agreement, select "I do not accept the terms in the agreement" and click [Next] to exit the wizard.



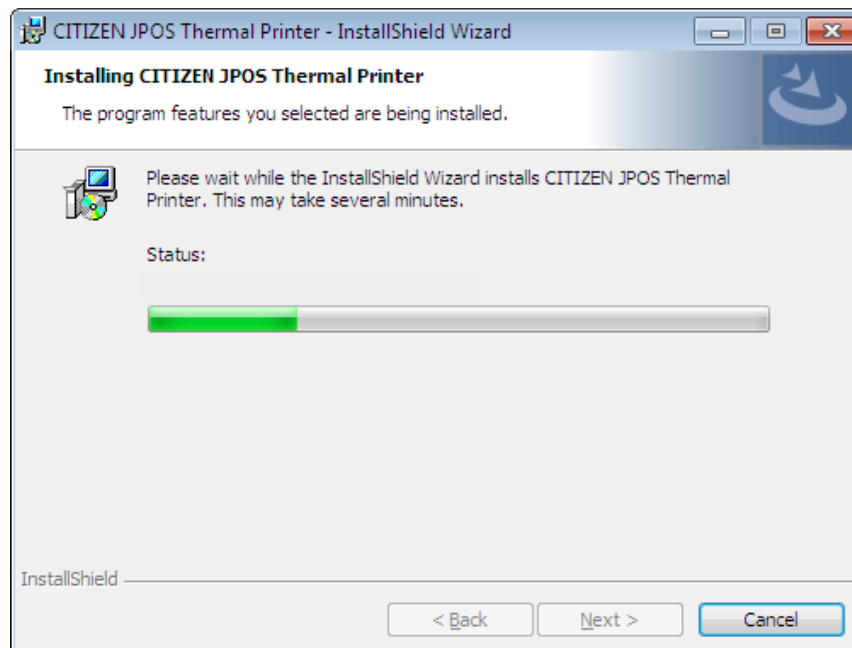
- 4) "Destination Folder" window is displayed. Specify the folder to install. If you use a default folder, click [Next]. If you want to change the folder, change the folder you want to install.



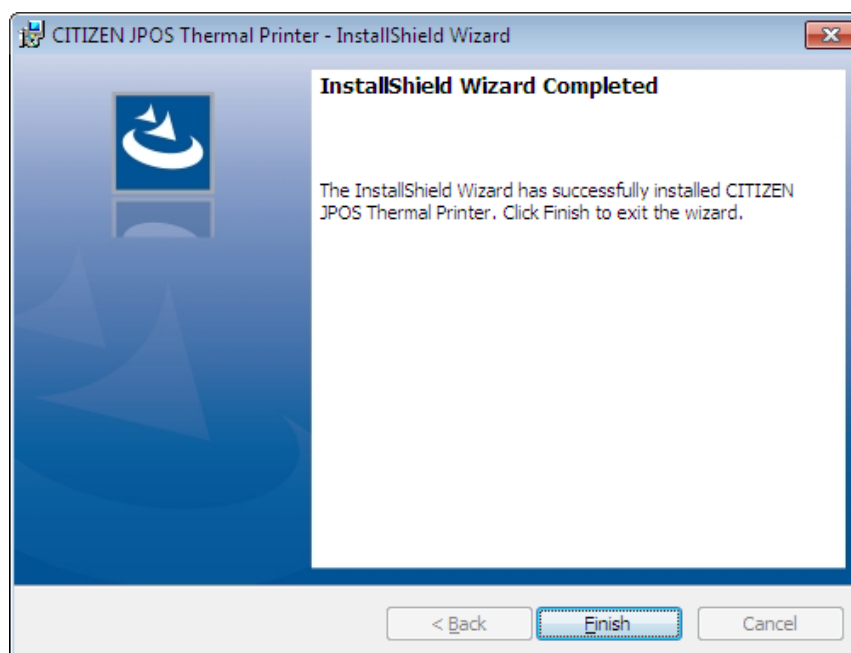
- 5) Click [Install] to begin the installation.



- 6) The installation progress status window is displayed. (It may take longer time to install depending on the environment or specifications of the terminal.)



- 7) When the installation is successful, "Installation Completed" window is displayed. Click [Close].



- 8) The following provides the description on the installation files of this product.

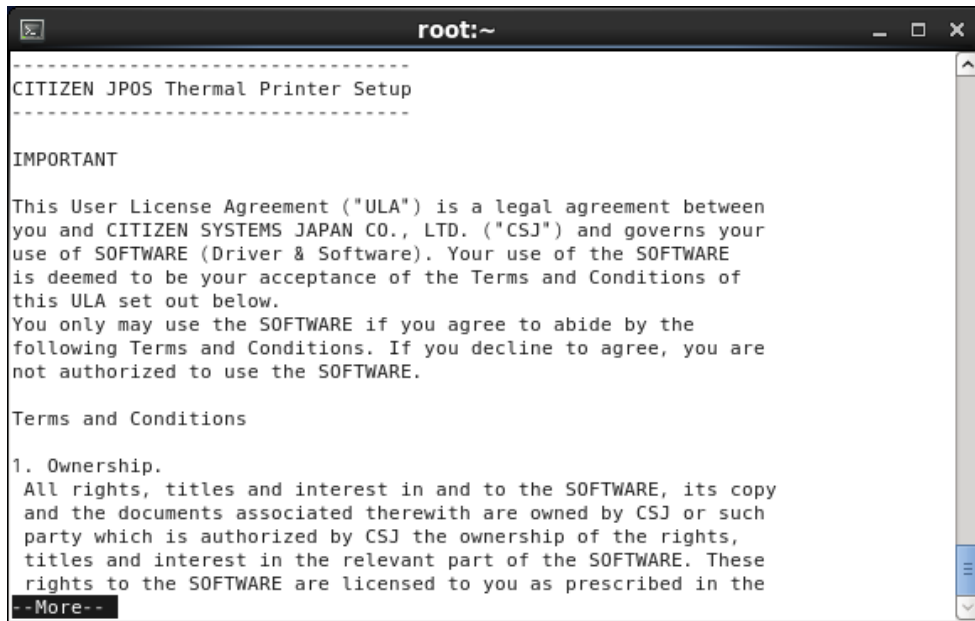
c:\program files\CITIZEN\CITIZEN JPOS Service Object (default)	
JPOSApplication.bat	: Test application execute file
JPOSConfig.bat	: Configuration (JCL) execute file
jpos.xml	: JavaPOS configuration file
CBMjpos.jar	: CITIZEN JavaPOS driver library
JPOSApplication.jar	: Test application library
jcl.jar	: jpos.config/loader (JCL) library
javapos-1.14.1.jar	: JavaPOS service object library
lib\comm.jar	: Library for driver
lib\jna.jar	: Library for driver
lib\xerces2.jar	: Library for driver
lib\xerces-2.6.0.jar	: Library for driver
lib\swing-layout-1.0.jar	: Library for test application
CSJjposBcw.dll	: Expansion library for driver
CSJjposCom.dll	: Expansion library for driver
win32com.dll	: Expansion library for driver
ReleaseNotes_EN.txt	: Release Notes file
Log	: Work folder for test application
Macro	: Work folder for test application
Sample	: Sample code folder

### 3.3. Installation Steps for Linux

- 1) The installer for Linux is "CSJ\_JPOSxxxxx\_setupEN.bin" (xxxxx is version number, self-extracting file). To run the installer, open the terminal window, change to the directory in which the installer is located, and type `./CSJ_JPOSxxxxx_setupEN.bin` (xxxxx is version number).

After starting, follow the installation procedure in accordance with the dialog.

- 2) Installer starts. Type the space key.



```

root:~
-----
CITIZEN JPOS Thermal Printer Setup
-----

IMPORTANT

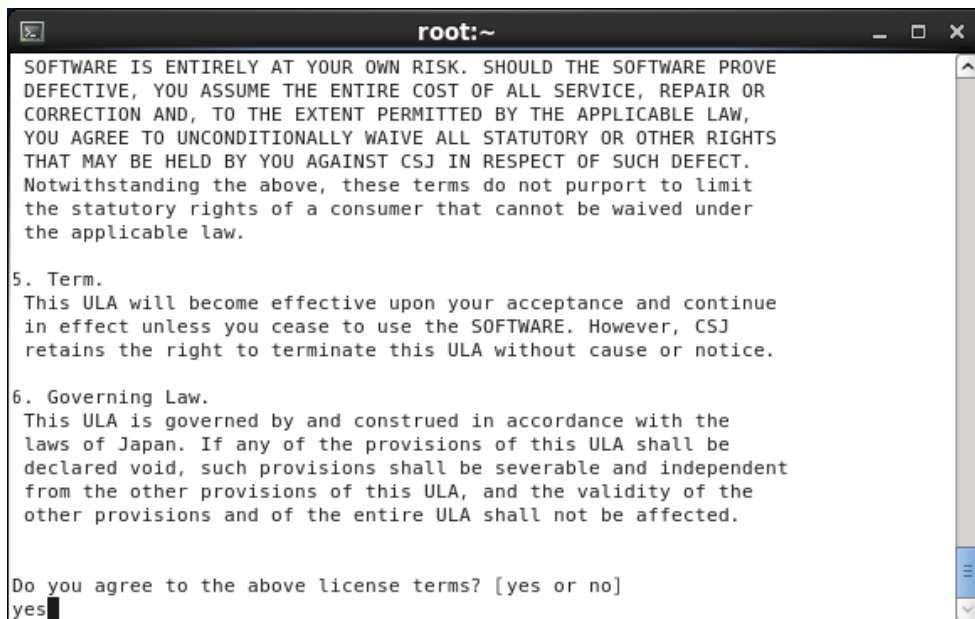
This User License Agreement ("ULA") is a legal agreement between
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is deemed to be your acceptance of the Terms and Conditions of
this ULA set out below.
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titles and interest in the relevant part of the SOFTWARE. These
rights to the SOFTWARE are licensed to you as prescribed in the
--More--

```

- 3) If you agree with the product license agreement, type "yes". If you do not agree with the product license agreement, type "no" to exit.



```

root:~
SOFTWARE IS ENTIRELY AT YOUR OWN RISK. SHOULD THE SOFTWARE PROVE
DEFECTIVE, YOU ASSUME THE ENTIRE COST OF ALL SERVICE, REPAIR OR
CORRECTION AND, TO THE EXTENT PERMITTED BY THE APPLICABLE LAW,
YOU AGREE TO UNCONDITIONALLY WAIVE ALL STATUTORY OR OTHER RIGHTS
THAT MAY BE HELD BY YOU AGAINST CSJ IN RESPECT OF SUCH DEFECT.
Notwithstanding the above, these terms do not purport to limit
the statutory rights of a consumer that cannot be waived under
the applicable law.

5. Term.
This ULA will become effective upon your acceptance and continue
in effect unless you cease to use the SOFTWARE. However, CSJ
retains the right to terminate this ULA without cause or notice.

6. Governing Law.
This ULA is governed by and construed in accordance with the
laws of Japan. If any of the provisions of this ULA shall be
declared void, such provisions shall be severable and independent
from the other provisions of this ULA, and the validity of the
other provisions and of the entire ULA shall not be affected.

Do you agree to the above license terms? [yes or no]
yes

```

- 4) When the installation is successful, installed places is displayed.

```

root:~
CSJ_JP0S11133_LinuxEN/libCSJjposCom.so
CSJ_JP0S11133_LinuxEN/lib/
CSJ_JP0S11133_LinuxEN/lib/jna.jar
CSJ_JP0S11133_LinuxEN/lib/LinuxCommAPI.jar
CSJ_JP0S11133_LinuxEN/lib/LinuxCommLib.jar
CSJ_JP0S11133_LinuxEN/lib/swing-layout-1.0.jar
CSJ_JP0S11133_LinuxEN/lib/comm.jar
CSJ_JP0S11133_LinuxEN/lib/xerces-2.6.0.jar
CSJ_JP0S11133_LinuxEN/lib/xerces2.jar
CSJ_JP0S11133_LinuxEN/libCSJjposBcw.so
CSJ_JP0S11133_LinuxEN/JP0SConfig.sh
CSJ_JP0S11133_LinuxEN/jcl.jar
CSJ_JP0S11133_LinuxEN/librxtxParallel.so
CSJ_JP0S11133_LinuxEN/jpos18-controls.jar
CSJ_JP0S11133_LinuxEN/JP0SApplication.sh
CSJ_JP0S11133_LinuxEN/Macro/

Done.

CITIZEN JP0S Service Objects was installed in the following places.

  /usr/local/CITIZEN/JP0S_Service_Objects

#

```

5) The following provides the description on the installation files of this product.

/usr/local/CITIZEN/JP0S_Service_Object	
JPOSApplication.sh	: test application execute file
JPOSConfig.sh	: configuration (JCL) execute file
jpos.xml	: JavaPOS configuration file
CBMjpos.jar	: CITIZEN JavaPOS driver library
JPOSApplication.jar	: Test application library
jcl.jar	: jpos.config/loader (JCL) library
javapos-1.14.1.jar	: JavaPOS service object library
lib/LinuxCommAPI.jar	: Library for driver
lib/LinuxCommLib.jar	: Library for driver
lib/comm.jar	: Library for driver
lib/jna.jar	: Library for driver
lib/xerces2.jar	: Library for driver
lib/xerces-2.6.0.jar	: Library for driver
lib/swing-layout-1.0.jar	: Library for test application
libCSJjposBcw.so	: Expansion library for the driver
libCSJjposCom.so	: Expansion library for the driver
librxtxParallel.so	: Expansion library for the driver
librxtxSerial.so	: Expansion library for the driver
ReleaseNotes_EN.txt	: Release Notes file
Log	: work directory for test application
Macro	: work directory for test application
Sample	: sample code directory

\* The installation directory structure has changed from version 1.14.0.3. If you have updated from an earlier version, delete the extension library file for the driver from the folder where the Java runtime environment is installed.

### 3.4. How to use the Driver for windows

Change to the Windows installation folder and double clicking the following file.

For starting the test application

JPOSApplication.bat

For starting the JPOS entry editor

JPOSConfig.bat

### 3.5. How to use the Driver for Linux

Open the terminal window and change to the Linux installation directory and type the following command on the command prompt.

For starting the test application

./JPOSApplication.sh

For starting the JPOS entry editor

./JPOSConfig.sh

### 3.6. Setting of JavaPOS entry

In order for Control Object to be connected to Service Object exactly and initialize the corresponding device, the JavaPOS control requires data of the jpos.xml file.

The following is the jpos.xml setting when it connects CT-S801II (printer) by Serial as an example. It is necessary to revise a value of "portName", "parity", "flowControl", "stopBits" and "baudRate".

```
<JposEntry logicalName="CITIZEN S801II Serial 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="WriteTimeout" type="String" value="5000"/>
  <prop name="portName" type="String" value="COM1"/>
  <prop name="PhysicalDevice" type="String" value="CITIZEN CT-S801II POS Printer"/>
  <prop name="dataBits" type="String" value="8"/>
  <prop name="PrinterLanguage" type="String" value="0"/>
  <prop name="parity" type="String" value="None"/>
  <prop name="flowControl" type="String" value="Hardware"/>
  <prop name="ResponseCheck" type="String" value="1"/>
  <prop name="stopBits" type="String" value="1"/>
  <prop name="Columns" type="String" value="48"/>
  <prop name="CharacterSet" type="String" value="437"/>
  <prop name="UseNVRAM" type="String" value="0"/>
  <prop name="Grayscale" type="String" value="0"/>
  <prop name="PaperModel" type="String" value="80mm"/>
  <prop name="deviceBus" type="String" value="RS232"/>
  <prop name="baudRate" type="String" value="19200"/>
</JposEntry>
```

The following is the jpos.xml setting when it connects CT-S801II (printer) by USB as an example. It is necessary to revise a value of "PortName".

```
<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="WriteTimeout" type="String" value="5000"/>
  <prop name="PhysicalDevice" type="String" value="CITIZEN CT-S801II POS Printer"/>
  <prop name="PortName" type="String" value="USB001"/>
  <prop name="PrinterLanguage" type="String" value="0"/>
  <prop name="ResponseCheck" type="String" value="1"/>
  <prop name="Columns" type="String" value="48"/>
  <prop name="CharacterSet" type="String" value="437"/>
  <prop name="UseNVRAM" type="String" value="0"/>
  <prop name="Grayscale" type="String" value="0"/>
  <prop name="PaperModel" type="String" value="80mm"/>
  <prop name="deviceBus" type="String" value="USB"/>
</JposEntry>
```

The following is the jpos.xml setting when it connects CT-S801II (printer) by Ethernet as an example. It is necessary to revise a value of "PortName" and "IPAddress".

```
<JposEntry logicalName="CITIZEN S801II Ethernet 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="WriteTimeout" type="String" value="5000"/>
    <prop name="PhysicalDevice" type="String" value="CITIZEN CT-S801II POS Printer"/>
    <prop name="PortName" type="String" value="IP_192.168.82.21"/>
    <prop name="PrinterLanguage" type="String" value="0"/>
    <prop name="PortNumber" type="String" value="9100"/>
    <prop name="ResponseCheck" type="String" value="1"/>
    <prop name="CharacterSet" type="String" value="437"/>
    <prop name="Columns" type="String" value="48"/>
    <prop name="UseNVRAM" type="String" value="0"/>
    <prop name="Grayscale" type="String" value="0"/>
    <prop name="PaperModel" type="String" value="80mm"/>
    <prop name="deviceBus" type="String" value="Ethernet"/>
    <prop name="IPAddress" type="String" value="192.168.82.21"/>
  </JposEntry>
```



## 4. Printer Setting

Using this product assumes that the DIP switch and memory switch of the printer are set as shown below. For the details of the method of operating each switch and the content of setting, refer to User's Guide of each model.

### 4.1. CT-D150 Series

#### Memory Switch Setting

MSW No.	Function	Setting	Description
1-1	Power ON Info	Valid	-
1-2	Buffer Size	4K bytes	-
1-3	Busy Condition	Full	-
1-4	Receiving Error	Print ?	-
1-5	CR Mode	Ignored	-
1-7	DSR Signal (when serial interface is used)	Invalid	-
2-2	Auto Cutter	Valid	-
2-4	Full Col Print	WaitData	-
3-1	Resume Ctrr Err	Valid	-
3-7	CBM1000 Mode	Valid	-
3-8	Resume Open Err	Close	-
4-8	Partial Only	Invalid	-
5-2	Line Pitch	1/360	-
6-1	Act. For Driver	Valid	-
7-6	DMA Control	Valid	-
8-4	Line Gap Reduce	Invalid	-
8-5	Reduced Char V/H	100% / 100%	-
9-1	Code Page	Katakana	-
9-2	Int'Char Set	Japan	-
9-4	Multi-Byte Char	SJIS:CP932(JPN)	-

## 4.2. CT-D151 Series

### Memory Switch Setting

MSW No.	Function	Setting	Description
1-1	Power ON Info	Valid	-
1-2	Buffer Size	4K bytes	-
1-3	Busy Condition	Full	-
1-4	Receiving Error	Print ?	-
1-5	CR Mode	Ignored	-
1-7	DSR Signal (when serial interface is used)	Invalid	-
1-8	INIT Signal (when serial interface is used)	Invalid	-
2-2	Auto Cutter	Valid	-
2-4	Full Col Print	WaitData	-
3-1	Resume Ctrr Err	Valid	-
3-7	CBM1000 Mode	Valid	-
3-8	Resume Open Err	Close	-
4-8	Partial Only	Invalid	-
5-2	Line Pitch	1/360	-
6-1	Act. For Driver	Valid	-
7-6	DMA Control	Valid	-
8-4	Line Gap Reduce	Invalid	-
8-5	Reduced Char V/H	100% / 100%	-
9-1	Code Page	Katakana	-
9-2	Int'Char Set	Japan	-
9-4	Multi-Byte Char	SJIS:CP932(JPN)	-
13-6	Auto Reconnect (when Bluetooth I/F is used)	Invalid	-

### 4.3. CT-E351 Series

#### **Memory Switch Setting**

<b>MSW No.</b>	<b>Function</b>	<b>Setting</b>	<b>Description</b>
1-1	Power ON Info	Valid	-
1-2	Buffer Size	4K bytes	-
1-3	Busy Condition	Full	-
1-4	Receiving Error	Print ?	-
1-5	CR Mode	Ignored	-
1-7	DSR Signal (when serial interface is used)	Invalid	-
2-2	Auto Cutter	Valid	-
2-4	Full Col Print	WaitData	-
3-1	Resume Cttr Err	Valid	-
3-7	CBM1000 Mode	Valid	-
3-8	Resume Open Err	Close	-
4-8	Partial Only	Invalid	-
5-2	Line Pitch	1/360	-
6-1	Act. For Driver	Valid	-
7-6	DMA Control	Valid	-
8-4	Line Gap Reduce	Invalid	-
8-5	Reduced Char V/H	100% / 100%	-
9-1	Code Page	Katakana	-
9-2	Int'Char Set	Japan	-
9-4	Multi-Byte Char	SJIS:CP932(JPN)	-

#### 4.4. CT-E651 Series

##### **Memory Switch Setting**

<b>MSW No.</b>	<b>Function</b>	<b>Setting</b>	<b>Description</b>
1-1	Power ON Info	Valid	-
1-2	Buffer Size	4K bytes	-
1-3	Busy Condition	Full	-
1-4	Receiving Error	Print ?	-
1-5	CR Mode	Ignored	-
1-7	DSR Signal (when serial interface is used)	Invalid	-
1-8	INIT Signal (when serial interface is used)	Invalid	-
2-2	Auto Cutter	Valid	-
2-4	Full Col Print	WaitData	-
3-1	Resume Ctrr Err	Valid	-
3-7	CBM1000 Mode	Valid	-
3-8	Resume Open Err	Close	-
4-8	Partial Only	Invalid	-
5-2	Line Pitch	1/360	-
6-1	Act. For Driver	Valid	-
7-6	DMA Control	Valid	-
8-4	Line Gap Reduce	Invalid	-
8-5	Reduced Char V/H	100% / 100%	-
9-1	Code Page	Katakana	-
9-2	Int'Char Set	Japan	-
9-4	Multi-Byte Char	SJIS:CP932(JPN)	-
13-6	Auto Reconnect (when Bluetooth I/F is used)	Invalid	-

## 4.5. CT-S251 Series

### Memory Switch Setting

MSW No.	Function	Setting	Description
1-1	Power ON Info	Valid	-
1-2	Buffer Size	4K bytes	-
1-3	Busy Condition	Full	-
1-4	Receiving Error	Print ?	-
1-5	CR Mode	Ignored	-
1-7	DSR Signal (when serial interface is used)	Invalid	-
1-8	INIT Signal (when serial interface is used)	Invalid	-
2-2	Auto Cutter	Valid	-
2-4	Full Col Print	WaitData	-
3-1	Auto cutter restore	Valid	-
3-7	CBM1000 Mode	Valid	-
3-8	Resume Open Err	Close	-
4-8	Partial Only	Invalid	-
5-2	Line Pitch	1/360	-
6-1	Act. For Driver	Valid	-
7-6	DMA Control	Valid	-
8-4	Line Gap Reduce	Invalid	-
8-5	Reduced Char	100% / 100%	-
8-6	Auto Side Shift	Invalid	-
9-1	Code Page	Katakana	-
9-2	Int'Char Set	Japan	-
9-3	Kanji	ON	-
9-4	JIS/Shift-JIS	SJIS(CP932)	-
13-6	Auto Reconnect (when Bluetooth interface is used)	Invalid	-

## 4.6. CT-S281 Series

### **DIP Switch Setting**

<b>DSW No.</b>	<b>Function</b>	<b>Setting</b>	<b>Description</b>
8	INIT (when serial interface is used)	OFF	Disabled

### **Memory Switch Setting**

<b>MSW No.</b>	<b>Function</b>	<b>Setting</b>	<b>Description</b>
1-1	Power ON Info	Valid	-
1-2	Buffer Size	4K bytes	-
1-3	Busy Condition	Full	-
1-4	Receiving Error	Print ?	-
1-5	CR Mode	Ignored	-
1-7	DSR Signal (when serial interface is used)	Invalid	-
2-2	Auto Cutter	Valid	-
2-4	Full column print	WaitData	-
3-1	Auto cutter restore	Valid	-
3-7	CBM270 Mode	Valid	-
3-8	Resume Open Err	Close	-
4-8	Partial Only	Invalid	-
9-1	Code Page	Katakana	-
9-2	Int'Char Set	Japan	-
9-3	Kanji	ON	-
9-4	JIS/Shift-JIS	Shift-JIS	-
13-6	Auto Reconnect (when Bluetooth interface is used)	Invalid	-

## 4.7. CT-S310 Series

### **DIP Switch Setting**

<b>DSW No.</b>	<b>Function</b>	<b>Setting</b>	<b>Description</b>
8	INIT (when serial interface is used)	OFF	Disabled

### **Memory Switch Setting**

<b>MSW No.</b>	<b>Function</b>	<b>Setting</b>	<b>Description</b>
1-1	Power ON Info	Valid	-
1-2	Buffer Size	4K bytes	-
1-3	Busy Condition	Full	-
1-4	Receiving Error	Print ?	-
1-5	CR Mode	Ignored	-
1-7	DSR Signal (when serial interface is used)	Invalid	-
1-8	INIT Signal (when serial interface is used)	Invalid	-
2-2	Auto Cutter	Valid	-
2-4	Full Col Print	WaitData	-
3-1	Auto cutter restore	Close	-
3-2	PE output at PNE (when parallel IF are used)	Invalid	-
3-3	Parallel 31Pin (when USB and parallel IF are used)	Valid	-
3-7	CBM1000 Mode	Valid	-
3-8	Resume Open Err	Close	-
4-8	Forced partial	Invalid	-
9-1	Code Page	Katakana	-
9-2	Int'Char Set	Japan	-
9-3	Kanji	Enable	-
9-4	JIS/Shift-JIS	Shift JIS	-

## 4.8. CT-S310II Series

**Memory Switch Setting**

MSW No.	Function	Setting	Description
1-1	Power ON Info	Valid	-
1-2	Buffer Size	4K bytes	-
1-3	Busy Condition	Full	-
1-4	Receiving Error	Print ?	-
1-5	CR Mode	Ignored	-
1-7	DSR Signal (when serial interface is used)	Invalid	-
2-2	Auto cutter operation	Valid	-
2-4	Full Col Print	WaitData	-
3-1	Auto Cutter	Valid	-
3-7	CBM1000 Mode	Valid	-
3-8	Resume Open Err	Close	-
4-8	Forced partial	Invalid	-
5-2	Line Pitch	1/360	-
6-1	Act. For Driver	Valid	-
7-6	DMA Control	Valid	-
8-4	Line Gap Reduce	Invalid	-
8-5	Reduced Char	100% / 100%	-
9-1	Code Page	Katakana	-
9-2	Int'Char Set	Japan	-
9-3	Kanji	ON	-
9-4	JIS/Shift-JIS	Shift JIS	-



## 4.9. CT-S601/651/801/851 Series

### **DIP Switch Setting**

DSW No.	Function	Setting	Description
8	INIT (when serial interface is used)	OFF	Disabled

### **Memory Switch Setting**

MSW No.	Function	Setting	Description
1-1	Power ON Info	Valid	-
1-2	Buffer Size	4K bytes	-
1-3	Busy Condition	Full	-
1-4	Receiving Error	Print ?	-
1-5	CR Mode	Ignored	-
1-7	DSR Signal (when serial interface is used)	Invalid	-
1-8	INIT Signal (when serial interface is used)	Invalid	-
2-2	Auto Cutter	Valid	-
2-4	Full Col Print	WaitData	-
3-1	Auto cutter restore	Close	-
3-2	PE output at PNE (when parallel IF are used)	Invalid	-
3-3	Parallel 31Pin (when USB and parallel IF are used)	Valid	-
3-7	CBM1000 Mode	Valid	-
3-8	Resume Open Err	Close	-
4-8	Forced partial	Invalid	-
5-2	Line Pitch	1/360	-
6-1	Act. For Driver	Valid	-
7-6	DMA Control	Valid	-
9-1	Code Page	Katakana	-
9-2	Int'Char Set	Japan	-
9-3	Kanji	Enable	-
9-4	JIS/Shift-JIS	Shift JIS	-
10-3	ACK Timing (when USB and parallel IF are used)	Before BUSY	-

## 4.10. CT-S601II/651II/801II/851II Series

**DIP Switch Setting**

DSW No.	Function	Setting	Description
8	INIT (when serial interface is used)	OFF	Disabled

**Memory Switch Setting**

MSW No.	Function	Setting	Description
1-1	Power ON Info	Valid	-
1-2	Buffer Size	4K bytes	-
1-3	Busy Condition	Full	-
1-4	Receiving Error	Print ?	-
1-5	CR Mode	Ignored	-
1-7	DSR Signal (when serial interface is used)	Invalid	-
1-8	INIT Signal (when serial interface is used)	Invalid	-
2-2	Auto cutter operation	Valid	-
2-4	Full Col Print	WaitData	-
3-1	Auto Cutter	Valid	-
3-2	PE output at PNE (when parallel IF are used)	Invalid	-
3-3	Parallel 31Pin (when USB and parallel IF are used)	Valid	-
3-7	CBM1000 Mode	Valid	-
3-8	Resume Open Err	Close	-
4-8	Forced partial	Invalid	-
5-2	Line Pitch	1/360	-
6-1	Act. For Driver	Valid	-
7-6	DMA Control	Valid	-
8-4	Line Gap Reduce	Invalid	-
8-5	Reduced Char	100% / 100%	-
9-1	Code Page	Katakana	-
9-2	Int'Char Set	Japan	-
9-4	Multi-byte Char	SJIS:CP932(JPN)	-
10-3	ACK Timing (when USB and parallel IF are used)	Before BUSY	-
13-6	Auto Reconnect (when Bluetooth interface is used)	Invalid	-

## 4.11. CT-S751 Series

**Memory Switch Setting**

MSW No.	Function	Setting	Description
1-1	Power ON Info	Valid	-
1-2	Buffer Size	4K bytes	-
1-3	Busy Condition	Full	-
1-4	Receiving Error	Print ?	-
1-5	CR Mode	Ignored	-
1-7	DSR Signal (when serial interface is used)	Invalid	-
1-8	INIT Signal (when serial interface is used)	Invalid	-
2-2	Auto Cutter	Valid	-
2-4	Full Col Print	WaitData	-
3-1	Resume Ctrr Err	Valid	-
3-7	CBM1000 Mode	Valid	-
3-8	Resume Open Err	Close	-
4-8	Partial Only	Invalid	-
5-2	Line Pitch	1/360	-
6-1	Act. For Driver	Valid	-
7-6	DMA Control	Valid	-
8-4	Line Gap Reduce	Invalid	-
8-5	Reduced Char V/H	100% / 100%	-
9-1	Code Page	Katakana	-
9-2	Int'Char Set	Japan	-
9-4	Multi-Byte Char	SJIS:CP932(JPN)	-
13-6	Auto Reconnect (when Bluetooth I/F is used)	Invalid	-

## 4.12. CT-S2000 Series

### **DIP Switch Setting**

DSW No.	Function	Setting	Description
8	INIT (when serial interface is used)	OFF	Disabled

### **Memory Switch Setting**

MSW No.	Function	Setting	Description
1-1	Power ON Info	Valid	-
1-2	Buffer Size	4K bytes	-
1-3	Busy Condition	Full	-
1-4	Receiving Error	Print ?	-
1-5	CR Mode	Ignored	-
1-7	DSR Signal (when serial interface is used)	Invalid	-
1-8	INIT Signal (when serial interface is used)	Invalid	-
2-2	Auto cutter operation	Valid	-
2-4	Full Col Print	WaitData	-
3-1	Auto Cutter	Valid	-
3-3	Parallel 31Pin (when USB and parallel IF are used)	Valid	-
3-7	CBM1000 Mode	Valid	-
3-8	Resume Open Err	Close	-
4-8	Forced partial	Invalid	-
5-2	Line Pitch	1/360	-
7-6	DMA Control	Valid	-
9-1	Code Page	Katakana	-
9-2	Int'Char Set	Japan	-
9-3	Kanji	ON	-
9-4	JIS/Shift-JIS	Shift JIS	-
10-3	ACK Timing (when USB and parallel IF are used)	Before BUSY	-

## 4.13. CT-S4000 Series

**DIP Switch Setting**

DSW No.	Function	Setting	Description
8	INIT (when serial interface is used)	OFF	Disabled

**Memory Switch Setting**

MSW No.	Function	Setting	Description
1-1	Power ON Info	Valid	-
1-2	Buffer Size	4K bytes	-
1-3	Busy Condition	Full	-
1-4	Receiving Error	Print ?	-
1-5	CR Mode	Ignored	-
1-7	DSR Signal (when serial interface is used)	Invalid	-
1-8	INIT Signal (when serial interface is used)	Invalid	-
2-2	Auto cutter operation	Valid	-
2-4	Full column print	WaitData	-
3-1	Auto Cutter	Valid	-
3-3	Parallel 31Pin (when USB and parallel IF are used)	Valid	-
3-7	CBM1000 Mode	Valid	-
3-8	Resume Open Err	Close	-
4-8	Forced partial	Invalid	-
5-2	Line Pitch	1/360	-
5-5	Power OFF notify	Not send	-
7-6	DMA Control	Valid	-
9-1	Code Page	Katakana	-
9-2	Int'Char Set	Japan	-
9-3	Kanji	Enabled	-
9-4	JIS/Shift-JIS	Shift JIS	-
10-3	ACK output timing (when USB and parallel IF are used)	Before BUSY	-

## 4.14. CT-S4500 Series

**Memory Switch Setting**

MSW No.	Function	Setting	Description
1-1	Power ON Info	Valid	-
1-2	Buffer Size	4K bytes	-
1-3	Busy Condition	Full	-
1-4	Receiving Error	Print ?	-
1-5	CR Mode	Ignored	-
1-7	DSR Signal (when serial interface is used)	Invalid	-
1-8	INIT Signal (when serial interface is used)	Invalid	-
2-2	Auto Cutter	Valid	-
2-4	Full Col Print	WaitData	-
3-1	Resume Ctrr Err	Valid	-
3-7	CBM1000 Mode	Valid	-
3-8	Resume Open Err	Close	-
4-8	Partial Only	Invalid	-
5-2	Line Pitch	1/360	-
6-1	Act. For Driver	Valid	-
7-6	DMA Control	Valid	-
8-4	Line Gap Reduce	Invalid	-
8-5	Reduced Char V/H	100% / 100%	-
9-1	Code Page	Katakana	-
9-2	Int'Char Set	Japan	-
9-4	Multi-Byte Char	SJIS:CP932(JPN)	-
13-6	Auto Reconnect (when Bluetooth I/F is used)	Invalid	-

## 4.15. PMU3300 Series

**Memory Switch Setting**

MSW No.	Function	Setting	Description
1-1	Power ON Info	Valid	-
1-2	Buffer Size	4K bytes	-
1-3	Busy Condition	Full	-
1-4	Receiving Error	Print ?	-
1-5	CR Mode	Ignored	-
1-7	DSR signal (when serial interface is used)	Invalid	-
2-2	Auto Cutter	Valid	-
2-4	Full Col Print	WaitData	-
3-1	Resume Ctrr Err	Valid	-
3-7	CBM1000 Mode	Valid	-
3-8	Resume Open Err	Close	-
4-8	Partial Only	Invalid	-
5-2	Line Pitch	1/360	-
6-1	Act. For Driver	Valid	-
9-1	Code page	Katakana	-
9-2	Int'Char Set	Japan	-
9-4	JIS/Shift JIS	Shift JIS	-

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