

CITIZEN JavaPOS DRIVER 1.11 Setup Guide

2010/05/07 Ver. 1.00

CITIZEN SYSTEMS JAPAN CO., LTD.

Revision Record

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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
- Linux

2.2. Object Models

Object 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
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Series of Model	Object Model	Interface	Printer Functions
	CBM-1000TypeII	Serial, USB	Standard
CBM-100011	CBM-1000TypeII- L	Serial, USB	Blackmark paper and label paper are supported.
CT-S281	CT-S281	Serial, USB	Standard
0062 TO	CT-S300	Serial, USB, Ethernet	Standard (Paper with blackmark on front side is supported.)
CT-5500	CT-S300-M1/M2	Serial, USB, Ethernet	Paper with blackmark on back side is supported.
CT \$310	CT-S310	Serial, USB, Ethernet	Standard (Paper with blackmark on front side is supported.)
01-3310	CT-S310-M1/M2 Serial, USB, Ethern		Paper with blackmark on back side is supported.
	CT-S2000	Serial, USB, Ethernet	Standard
CT-S2000	CT-S2000-M	Serial, USB, Ethernet	Blackmark paper is supported
	CT-S2000-L	Serial, USB, Ethernet	Label paper is supported.
CT \$601/651/951	CT-S601/651/851	Serial, USB, Ethernet	Standard
01-3001/031/031	CT-S601/651/851-M	Serial, USB, Ethernet	Blackmark paper is supported
	CT-801	Serial, USB, Ethernet	Standard
CT-S801	CT-S801-M	Serial, USB, Ethernet	Blackmark paper is supported
	CT-S801-L	Serial, USB, Ethernet	Label paper is supported.
	CT-S4000	Serial, USB, Ethernet	Standard (Paper with blackmark on front side is supported.)
CT-S4000	CT-S4000-M	D0-M Serial, USB, Ethernet Paper with blackmis supported.	
	CT-S4000-L	Serial, USB, Ethernet	Label paper is supported.

Series of Model	Object Model	Interface	Printer Functions		
	CBM-1000TypeII	Serial	Standard		
CBM-1000II	CBM-1000TypeII- L	Serial	Blackmark paper and label paper are supported.		
CT-S281	CT-S281	Serial, USB	Standard		
CT \$200	CT-S300	Serial, Ethernet	Standard (Paper with blackmark on front side is supported.)		
C1-S300	CT-S300-M1/M2	Serial, Ethernet	Paper with blackmark on back side is supported.		
CT \$310	CT-S310	Serial, USB, Ethernet	Standard (Paper with blackmark on front side is supported.)		
01-3310	CT-S310-M1/M2 Serial, USB, Ethernet Paper with black is supported.		Paper with blackmark on back side is supported.		
	CT-S2000	Serial, USB, Ethernet	Standard		
CT-S2000	CT-S2000-M	00-M Serial, USB, Ethernet Blackmark pape			
	CT-S2000-L	Serial, USB, Ethernet	Label paper is supported.		
CT \$601/651/951	CT-S601/651/851 Serial, USB, Ethernet Standard		Standard		
CT-3001/051/051	CT-S601/651/851-M	Serial, USB, Ethernet	Blackmark paper is supported		
	CT-801	Serial, USB, Ethernet	Standard		
CT-S801	CT-S801-M	Serial, USB, Ethernet	Blackmark paper is supported		
	CT-S801-L	Serial, USB, Ethernet	Label paper is supported.		
	CT-S4000	Serial, USB, Ethernet	Standard (Paper with blackmark on front side is supported.)		
CT-S4000	CT-S4000-M	-M Serial, USB, Ethernet Paper with blackma is supported.			
	CT-S4000-L	Serial, USB, Ethernet	Label paper is supported.		

Linux environment

2.3. USB Interface Connection

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. Windows driver includes two types: a driver with status function (language monitor) that allows checking of printer status and a driver without status function. When using this driver, be sure to install the Windows driver without status function.

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.

http://www.java.com/

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

 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].



 "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.

🥵 CITIZEN JPOS Thermal Printer – InstallShield Wizard 🛛 🛛 🔀
License Agreement Please read the following license agreement carefully.
IMPORTANT This User License Agreement ("ULA") is a legal agreement between you and CITIZEN SYSTEMS JAPAN CO., LTD. ("CSJ") and governs your use of SOFTWARE (Driver & Software). Your use of the SOFTWARE is deemed to be your acceptance of the Terms and Conditions of this ULA set out below. You only may use the SOFTWARE if you agree to abide by the following Terms and Conditions. If you decline to agree, you are not authorized to use the SOFTWARE.
Terms and Conditions
I accept the terms in the license agreement Print I do not accept the terms in the license agreement
< <u>Back</u> <u>Next</u> > Cancel

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.

🔂 СПІДЕІ	1 JPOS Thermal Printer - InstallShield Wizard 🛛 🛛 🔀
Destinati Click Ne×	on Folder At to install to this folder, or click Change to install to a different folder.
	Install CITIZEN JPOS Thermal Printer to: C:¥Program Files¥CITIZEN¥CITIZEN JPOS Service Objects¥
InstallShield –	< Back Next > Cancel

5) Click [Install] to begin the installation.

🔂 CITIZEN JPOS Thermal Printer – InstallShield Wizard 🛛 🛛 🔀
Ready to Install the Program The wizard is ready to begin installation.
Click Install to begin the installation. If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield

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

🛃 СПІДЕН	I JPOS Thermal Printer – InstallShield Wizard 📃 🗖 🔀
Installing The prog	CITIZEN JPOS Thermal Printer ram features you selected are being installed.
i de la companya de l	Please wait while the InstallShield Wizard installs CITIZEN JPOS Thermal Printer. This may take several minutes. Status:
InstallShield –	< <u>B</u> ack <u>N</u> ext > Cancel

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)

CBMjpos.jar	: CITIZEN JavaPOS library
jcl.jar	: jpos.config/loader (JCL) object
jpos18-controls.jar	: JavaPOS service object
jpos.xml	: JavaPOS configuration file
JPOSApplication.bat	: test application execute file
JPOSApplication.jar	: test application object
JPOSConfig.bat	: configuration (JCL) execute file
*.dll	: device library files
lib	: library folder
Log	: work folder for test application
Macro	: work folder for test application
Sample	: sample code folder

3.3. Installation Steps for Linux

 The installer for Linux is "CSJ_JPOSxxxxx_setupEN.bin" (xxxxx is version number, self-extracting file). Please make sure the JAVA_HOME environment property is set to the Java runtime environment installation folder. To run the installer, open the terminal window, change to the directory in which the installer is located, and type "./CSJ_JPOSxxxxx_setpuEN.bin" (xxxxx is version number).

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

2) Installer starts. Type the space key.

	root:~		×
-	ITIZEN JPOS Thermal Printer Setup		
I	MPORTANT		
T y i t Y f n	This User License Agreement ("ULA") is a legal agreement between you and CITIZEN SYSTEMS JAPAN CO., LTD. ("CSJ") and governs your use of SOFTWARE (Driver & Software). Your use of the SOFTWARE s deemed to be your acceptance of the Terms and Conditions of this ULA set out below. You only may use the SOFTWARE if you agree to abide by the following Terms and Conditions. If you decline to agree, you are not authorized to use the SOFTWARE.		
т	erms and Conditions		
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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 independen from the other provisions of this ULA, and the validity of the other provisions and of the entire ULA shall not be affected.	t		
Do you agree to the above license terms? [yes or no] yes			

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

root:~	-	÷	×
CSJ_JPOS11123_LinuxEN/lib/ CSJ_JPOS11123_LinuxEN/lib/swing-layout-1.0.jar CSJ_JPOS11123_LinuxEN/lib/xerces-2.6.0.jar CSJ_JPOS11123_LinuxEN/lib/xerces2.jar CSJ_JPOS11123_LinuxEN/lib/xerces2.jar CSJ_JPOS11123_LinuxEN/librxtxParallel-2.0.5.so CSJ_JPOS11123_LinuxEN/librxtxSerial-2.0.5.so CSJ_JPOS11123_LinuxEN/librxtxSerial-2.0.5.so CSJ_JPOS11123_LinuxEN/librxtxSerial.so CSJ_JPOS11123_LinuxEN/LibrxtxSerial.so CSJ_JPOS11123_LinuxEN/LibrxtxSerial.so CSJ_JPOS11123_LinuxEN/LinuxCommAPI.jar CSJ_JPOS11123_LinuxEN/LinuxCommLib.jar CSJ_JPOS11123_LinuxEN/LinuxCommLib.jar			
CSJ_JPOS11123_LinuxEN/Macro/ CSJ_JPOS11123_LinuxEN/Sample/ CSJ_JPOS11123_LinuxEN/Sample/Sample.java CSJ_JPOS11123_LinuxEN/Sample/Sample01.bmp			
Done.			
CITIZEN JPOS Service Objects was installed in the following places. /usr/local/CITIZEN/JPOS_Service_Objects			
#			

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

/usr/local/CITIZEN/JPOS_Service_Object

CBMjpos.jar	: CITIZEN JavaPOS library
jcl.jar	: jpos.config/loader (JCL) object
jpos18-controls.jar	: Line printer service object
jpos.xml	: JavaPos configuration file
JPOSApplication.sh	: test application execute file
JPOSApplication.jar	: test application object
JPOSConfig.sh	: configuration (JCL) execute file
*.jar	: device library files
lib	: library directory
Log	: work directory for test application
Macro	: work directory for test application
Sample	: sample code directory
\$JAVA_HOME/lib/i386	(JAVA_HOME is the Java runtime environment installation folder)
libJavaxUsb.so	: device library files

libJavaxUsb.so	: device library files
librxtxParallel-2.0.5.sc	: device library files
librxtxParallel.so	: device library files
librxtxSerial-2.0.5.so	: device library files
librxtxSerial.so	: device library files

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-S801 (printer) by Serial as an example. It is necessary to revise a value of "portName", "parity ", "flowControl", "stopBits" and "baudRate".

```
<JposEntry logicalName="CITIZEN S801 Serial Windows">
    <creation factoryClass="jpos.loader.simple.SimpleJPOSServiceInstanceFactory"
        serviceClass="jpos.services.Citizen801PrinterServices"/>
    <vendor name="CITIZEN" url="http://www.citizen-systems.co.jp"/>
    <jpos category="POSPrinter" version="1.11"/>
    <product description="Jpos printer driver" name="CITIZEN CT-S801 POS printer"</pre>
        url="http://www.citizen-systems.co.jp"/>
    <prop name="portName" type="String" value="COM1"/>
    <prop name="PhysicalDevice" type="String" value="CITIZEN CT-S801 POS Printer"/>
    <prop name="dataBits" type="String" value="8"/>
    <prop name="PrinterLanguage" type="String" value="8"/>
    <prop name="parity" type="String" value="None"/>
    <prop name="flowControl" type="String" value="Hardware"/>
    <prop name="CharacterSet" type="String" value="437"/>
    <prop name="Columns" type="String" value="48"/>
    <prop name="stopBits" type="String" value="1"/>
    <prop name="UseNVRAM" 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-S801 (printer) by USB as an example. It is necessary to revise a value of "PortName".

```
<JposEntry logicalName="CITIZEN S801 USB Windows">
    <creation factoryClass="jpos.loader.simple.SimpleJPOSServiceInstanceFactory"
        serviceClass="jpos.services.Citizen801PrinterServices"/>
    <vendor name="CITIZEN" url="http://www.citizen-systems.co.jp"/>
    < jpos category="POSPrinter" version="1.11"/>
    cproduct description="Jpos printer driver" name="CITIZEN CT-S801 POS printer"
        url="http://www.citizen-systems.co.jp"/>
    <prop name="PhysicalDevice" type="String" value="CITIZEN CT-S801 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"/>
</JposEntry>
```

The following is the jpos.xml setting when it connects CT-S801 (printer) by Ethernet as an example. It is

necessary to revise a value of "PortName" and "IPAddress".

```
<JposEntry logicalName="CITIZEN S801 Ethernet Windows">
    <creation factoryClass="jpos.loader.simple.SimpleJPOSServiceInstanceFactory"
         serviceClass="jpos.services.Citizen801PrinterServices"/>
    <vendor name="CITIZEN" url="http://www.citizen-systems.co.jp"/>
    <jpos category="POSPrinter" version="1.11"/>
    <product description="Jpos printer driver" name="CITIZEN CT-S801 POS printer"</pre>
         url="http://www.citizen-systems.co.jp"/>
    <prop name="PhysicalDevice" type="String" value="CITIZEN CT-S801 POS printer"/>
    <prop name="PortName" type="String" value="IP_192.168.82.21"/>
    <prop name="PrinterLanguage" type="String" value="8"/>
    <prop name="PortNumber" type="String" value="9100"/>
    <prop name="Columns" type="String" value="48"/>
    <prop name="CharacterSet" type="String" value="437"/>
    <prop name="UseNVRAM" 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. CBM-1000II Series

DSW No.	Function	Setting	Description
1-1	Auto cutter	ON	With auto cutter
1-5	CR mode	OFF	Ignored
1-6	Input buffer	OFF	4KB
2-1		ON	
2-2	Select character code table.	OFF	Katakana
2-3		OFF	Katakana
2-4		OFF	
2-5	JIS/Shift-JIS	ON	Shift-JIS
2-6	Condition for BUSY state	ON	Receiving buffer full
3-7	DSR (when serial I/F is used)	OFF	DSR
3-8	INIT (when serial I/F is used)	OFF	Disabled

DIP Switch Setting

* This model has no software switch function.

4.2. CT-S281 Series

DIP Switch Setting

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

MSW No.	Function	Setting	Description
1-1	Power ON notify setting	OFF	Enabled
1-2	Input buffer	OFF	4KB
1-3	Busy condition	ON	Buffer full
1-4	Receiving error character	OFF	Character?
1-5	CR mode	OFF	Disabled
1-7	DSR signal (when serial I/F is used)	OFF	DSR
1-8	INIT signal (when serial I/F is used)	OFF	-
2-2	Auto cutter operation	ON	Enabled
3-1	Auto cutter restore	OFF	L/F enabled
3-7	CBM270-compatible mode	ON	compatible
3-8	Cover opened while printing	OFF	Auto restore
4-8	Full cut command	OFF	Full cut
9-1	Code page	Katakana	-
9-2	Foreign language characters	Japan	-
9-3	Kanji	Enabled	-
9-4	JIS/Shift-JIS	Shift-JIS	-

4.3. CT-S300 Series

DIP Switch Setting

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

Memory Switch Setting

MSW No.	Function	Setting	Description
1-1	Power ON notify setting	OFF	Enabled
1-2	Input buffer	OFF	4KB
1-3	Busy condition	ON	Buffer full
1-4	Receiving error character	OFF	Character?
1-5	CR mode	OFF	Disabled
1-7	DSR signal (when serial I/F is used)	OFF	DSR
1-8	INIT signal (when serial I/F is used)	OFF	-
2-2	Auto cutter operation	ON	Enabled
3-1	Auto cutter restore	OFF	L/F enabled
3-3	Parallel 31 Pin (when USB I/F are used)	OFF	Reset
3-7	CBM1000-compatible mode	OFF	Non-compatible
3-8	Cover opened while printing	OFF	Auto restore
4-8	Full cut command	OFF	Full cut

4.4. CT-S310 Series

DIP Switch Setting

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

MSW No.	Function	Setting	Description
1-1	Power ON notify setting	OFF	Enabled
1-2	Input buffer	OFF	4KB
1-3	Busy condition	ON	Buffer full
1-4	Receiving error character	OFF	Character?
1-5	CR mode	OFF	Disabled
1-7	DSR signal (when serial interface is used)	OFF	DSR
1-8	INIT signal (when serial interface is used)	OFF	-
2-2	Auto cutter operation	ON	Enabled
3-1	Auto cutter restore	OFF	L/F enabled
3-3	Parallel 31 Pin (when USB I/F are used)	OFF	Reset
3-7	CBM1000-compatible mode	OFF	Non-compatible
3-8	Cover opened while printing	OFF	Auto restore
4-8	Full cut command	OFF	Full cut
9-1	Code page	Katakana	-
9-2	Foreign language characters	Japan	-
9-3	Kanji	Enabled	-
9-4	JIS/Shift-JIS	Shift-JIS	-

4.5. CT-S2000 Series

DIP Switch Setting

-				
	DSW No.	Function	Setting	Description
	8	INIT (when serial I/F is used)	OFF	Disabled

MSW No.	Function	Setting	Description
1-1	Power ON notify setting	OFF	Enabled
1-2	Input buffer	OFF	4KB
1-3	Busy condition	ON	Buffer full
1-4	Receiving error character	OFF	Character?
1-5	CR mode	OFF	Disabled
1-7	Select DSR signal (when serial I/F is used)	OFF	DSR
1-8	Select INIT signal (when serial I/F is used)	OFF	-
2-2	Auto cutter operation	ON	Enabled
3-1	Auto cutter restore	OFF	L/F enabled
3-3	Parallel 31Pin (when USB I/F are used)	OFF	Reset
3-7	CBM1000-compatible mode	ON	Compatible
3-8	Cover opened while printing	OFF	Auto restore
4-8	Forced partial	OFF	Disabled
5-2	Vertical basic calculation pitch	OFF	360 dots
7-6	DMA control	Enabled	-
9-1	Code page	Katakana	-
9-2	Foreign language characters	Japan	-
9-3	Kanji	Enabled	-
9-4	JIS/Shift-JIS	Shift-JIS	-
10-3	ACK output timing (when USB I/F are used)	Before BUSY	-

4.6. CT-S601/651/801/851 Series

L	DIP Switch Setting						
	DSW No.	Function	Setting	Description			
	8	INIT (when serial I/F is used)	OFF	Disabled			

DIP Switch Setting

MSW No.	Function	Setting	Description
1-1	Power ON notify setting	OFF	Enabled
1-2	Input buffer	OFF	4KB
1-3	Busy condition	ON	Buffer full
1-4	Receiving error character	OFF	Character?
1-5	CR mode	OFF	Disabled
1-7	Select DSR signal (when serial I/F is used)	OFF	DSR
1-8	Select INIT signal (when serial I/F is used)	OFF	-
2-2	Auto cutter operation	ON	Enabled
3-1	Auto cutter restore	OFF	L/F enabled
3-3	Parallel 31Pin (when USB I/F are used)	OFF	Reset
3-7	CBM1000-compatible mode	ON	Compatible
3-8	Cover opened while printing	OFF	Auto restore
4-8	Forced partial	OFF	Disabled
5-2	Vertical basic calculation pitch	OFF	360 dots
6-1	Act. For Driver	ON	Valid
7-6	DMA control	Enabled	-
9-1	Code page	Katakana	-
9-2	Foreign language characters	Japan	-
9-3	Kanji	Enabled	-
9-4	JIS/Shift-JIS	Shift-JIS	-
10-3	ACK output timing (when USB I/F are used)	Before BUSY	-

4.7. CT-S4000 Series

DIP Switch Setting

-				
	DSW No.	Function	Setting	Description
	8	INIT (when serial I/F is used)	OFF	Disabled

MSW No.	Function	Setting	Description
1-1	Power ON notify setting	OFF	Enabled
1-2	Input buffer	OFF	4KB
1-3	Busy condition	ON	Buffer full
1-4	Receiving error character	OFF	Character?
1-5	CR mode	OFF	Disabled
1-7	Select DSR signal (when serial interface is used)	OFF	DSR
1-8	Select INIT signal (when serial interface is used)	OFF	-
2-2	Auto cutter operation	ON	Enabled
3-1	Auto cutter restore	OFF	L/F enabled
3-3	Parallel 31Pin (when USB I/F are used)	OFF	Reset
3-7	CBM1000-compatible mode	ON	Compatible
3-8	Cover opened while printing	OFF	Auto restore
4-8	Forced partial	OFF	Disabled
5-2	Vertical basic calculation pitch	OFF	360 dots
5-5	Power OFF notify	Disabled	-
7-6	DMA control	Enabled	-
9-1	Code page	Katakana	-
9-2	Foreign language characters	Japan	-
9-3	Kanji	Enabled	-
9-4	JIS/Shift-JIS	Shift-JIS	-
10-3	ACK output timing (when USB I/F are used)	Before BUSY	-

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