CITIZEN

Windows Driver Guide

Installer version
For Ver3.4xx

CITIZEN SYSTEMS JAPAN CO., LTD.

Index

Revision history (3.xx/2.xx/1.6xx)

Date	Version	Details
09/06/25	V2.00	Issued
09/10/29	V2.01	Added CT-S601
09/12/15	V2.02	Windows7 is supported Installer is changed. (Status function is supported on all the drivers.) Explanation for CITIZEN COM port is added.. Explanation for Additional driver function is added.
10/5/20	V2.02 (Modified)	CT-S651/851 are added.
10/5/27	V2.23	Version number is changed to same version as driver itself. Status monitor is updated to Ver2.2.4.0. Online/Offline can be detected correctly.. USB data transfer time out value of language monitor is changed to 8 seconds to avoid the communication error caused by bi-directional communication via USB on Windows7. (32-bit)/(64-bit) are added to FileDescription of DLLs. Windows7 device icon for CT-S60,651,801 and 851 are added.
10/11/25	V.2.24	Ethernet is added for supported interface POS Printer Utility is updated to Ver1.8.3 (Wrong setting values are corrected.) Status Monitor Library is updated to Ver1.3.1 (The time to get status is shortened.)
11/4/13	V2.25/1.660	CT-S310II driver is added. 2 dimensional barcode fonts are added. "Label/BM" function is changed to "Paper Media" function. "Cutter Mode" is refined to support Label/BM paper cutter mode. "Paper Feed" function is newly added for the adjustment of paper feeding before the cut. File sender garbage character problem is fixed. Changes to show/hide buttons and tabs are added. Status monitor is updated to Ver2.2.5.2 for minor changes. POS Printer Utility is updated to 2.0 and is excluded from driver installer. Document for Ver1.660 is integrated.
12/6/15		Explanation about TCP/IP port is added.

13/3/1	V2.27/1.680	Windows8 is supported.
		Version dialog function is added.
		The problem of cutting in the middle of watermark is fixed.
		The problem of reprint and coupon print from client PC to shared printer is fixed.
		Status monitor is updated to 2.2.5.3.
		  Win8/Win Server2012 are supported.
		  Log file function is improved.
		  Setting to accept/reject Offline status is added.
		  Setting to enable/disable notification of printing completion is added.
		  Status inquiry command sequence for each interface except parallel is changed.
		  Unit of status monitor setting is changed from driver base to model base.
		Driver port setting tool is updated.

13/7/22	V2.28/V1.690	Installation failure on non-English Windows is fixed. Problem to get printer status with LAN/WLAN is fixed. Problem of PMU2xxxIII presenter status is fixed. "X" mark is removed from the icon for software un-installation list
14/1/21	V2.281/1.691	Support of CT-S281BD is added.
15/3/9	V3.1xx/V2.28x/V1.69x	Ver 3.xx driver is added. CT-S251/ CT-S8xx(II)/CT-S6xx(II) are added. CT-S2000 is removed from target OS..
15/08/20	V3.200	Windows10 is supported. 1.xx/2xx drivers are integrated to 3.xx by having function to enable/disable "Driver Advanced Functions".
16/2/12		The base of explanation is changed Windows7 from Windows Vista. Explanation of CITIZEN TCP/IP Port Monitor is added.

17/3/1	V3.3.00	Installer is improved to have less trouble during installing.
		  Stream of installation is improved. Time for installation is shorter and file size is smaller.
		  Related tool is installed/uninstalled together with the driver.
		  Even printer is connected via USB, final installation can be done by power recycle of printer.
		  TCP/IP port monitor installed together.
		  Status function for LAN interface is improved not to have offline status easily.
		  Driver itself has function of settings like port time out which was done by external tool.
		Added CT-D150/151/E351/651 support
		New standard is applied for CT-D150/151/S351/651 page size.

18/7/17	V3.4.0.0	There is no change in the driver body. The status acquisition method by SNMP can be selected. Improved handling when Bluetooth connection is broken. The installation procedure has been slightly improved.

Revision history (1.xx)

Date	Version	Details
05/08/01	050420（V1.00）	This document is released
05/09/01	050901 （V1.40）	CT-S280 driver is added. FontAxx / FontBxx are added to CD-S500 series driver The problem with longer data than full column is corrected. Fewer columns problem with Font 15cpi Size 80 is corrected. The problem with mixed font lines between printer font and TrueType font is corrected. The problem with custom size paper for CT-S300 is fixed.
05/11/16	051116 (V1.51)	CT-S2000 driver is added
06/1/28	V1.53	Printing garbage problem with parallel I/F is fixed. High resolution CD-S500 graphic printing problem is fixed. CD-S500 longer than full column printing problem is fixed.
06/7/30	V1.56	Automatic line feed is added to the end of CT-S280 printing. The problem of feed length after barcode printing is fixed. The problem of divided TrueType font is fixed. The print speed down by above change is improved. Graphic print method of CT-S300 is changed. CT-S4000 driver is added.
07/3/20	V1.57	Another problem of feed length after barcode printing is fixed. Problem of unstable character size is fixed. CT-S4000 Label driver is added. BD2-2220/2221 is added. "Printer Features" function is added to print in fixed length. Drivers are adapted to Windows Vista Euro mark problem is solved.
07/04/30	V1.57a	CT-S310 driver is added PMU2xxx driver is added.
07/12/21	V1.581	64 bit drivers are added. Installer version is available. CT-S2000Label is added. CT-S4000 Compress driver is added. Partial cut is added to Cut method of PMU-2xxx NV logo transaction by ESC (L can be chosen for CT-S2000/4000/PPU700 Graphic print method of CT-S280 is changed. The problem of printing some Unicode characters is fixed. The width information of FontA88 is corrected. The width information of 6.25cpi and 48point is corrected. The problem of wrong position logo by multiple page printing is fixed. Problem of wrongly printed printer font at the end of page is fixed. The problem of paper length by multiple page of upside down printing is fixed.
08/07/02	1.582	POS Printer Utility can be called from [Tool] property of driver. File transfer function is added to [Tool] property of driver Strange print position problem of printer font with Upside-Down function is fixed. Missing last vertical dot-line problem in high quality graphic printing is fixed. Actual printing area for CD-S500series is expanded. The problem of white gap in horizontal direction printing is fixed.（This solution requires firmware upgrade as well. Applicable model is CT-S2000, CT-S4000, CT-S310 and succeeding models.） The command for cut for CT-S300 & 310 is changed from GS V to ESC i, ESC m. FontBxx size of CT-S2000/4000/S28x/BD2-2xxx/PMU-2xxx/CBM1000II is corrected. CT-S281 driver is added.
08/12/25	1.582a	The problem of white gap in horizontal direction causes garbage printing with old version CT-S310 firmware. So the function was removed from CT-S310 driver.
09/04/08	1.583	CT-S281L driver is added. Custom paper definition in GPD file is changed as follows. 　Deleted left margin (*MinLeftMargin): All models 　Changed max defined size (*MaxSize): 　　CT-S4000: from (640,32767) to (896,26182) 　　Others from (???,32767) to (???,26182) 　　No change: CT-S500 series 　Changed minimum defined size (*MinSize): 　　Label type (203,203) 　　Non label type (20,20) 　　PPU700 (203,719) 　　No change: CD-S500series and CT-S4000 compressed. Solution for white gap in horizontal direction is added to CT-S281standard driver. The problem of disappeared button for POS Printer Utility by changing driver name is fixed.

09/12/15	1.600	CT-P290 series are added. The problem to print through Remote Desktop is solved. The problem of order to print NV logo in multiple pages on Windows7 is fixed. Icons for "Printer functions" in driver property are changed. Upside down printing function is deleted. Label/Black mark driver is integrated into standard driver.
10/2/9	1.610 （not released）	Status monitor is renewed and status function is very much improved.
10/6/21	1.630	Problem caused by printing from multiple processes is fixed. With the combination of logo printing at print job end + double high printer font for last print data, paper feeding length is changed according to logo data presence in the NV memory of the printer. This problem is fixed. (32-bit)/(64-bit) are added to FileDescription of DLLs. Status monitor is updated to Ver2.2.4.0. Online/Offline can be detected correctly.. USB data transfer time out value of status monitor is changed to 8 seconds to avoid the communication error caused by bi-directional communication via USB on Windows7. Paper at presenter exit can be detected as PRINTER_STATUS_OUTPUT_BIN_FULL on PPU-700.
11/1/6	1.640	Driver for BD2-4280,BD2-4281are added. Driver name of PMU-2320 is changed to PMU2xxx Driver for PMU2xxxIII Presenter is added Status Monitor Library is updated to Ver1.3.1. (The time to get status is shorten.)

Caution

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(2) The contents of this document are subject to change without prior notice.

(3) We tried to ensure the content of this document but if you find any mistakes, please let us know.

(4) Regardless of article (3), we cannot be responsible for any damages/influences caused by the use of this driver.

(5) If you do not agree any of above, you are not allowed to use the driver.

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1. Operating systems

Our drivers are designed to work on any of following operating systems.

    Microsoft Windows XP

    Microsoft Windows Vista

    Microsoft Windows 7

    Microsoft Windows 8, 8.1

    Microsoft Windows 10

    Derived OS from the above such as Server OS

2. Supported and interfaces

Supported interfaces are as follows.

    Serial / CITIZEN COM / COM generated by Bluetooth SPP connection

    Parallel(LPT)

    USB

    USB Virtual COM

    LAN or Wireless LAN / CITIZEN TCP/IP

    (This document does not cover TCP/IP port driver. For the details of TCP/IP port installation, refer to separate document "CITIZEN TCP/IP Port manual".)

Caution

USB Virtual COM driver

If you use CT-D150/151/E351/651/S251/281/310/310II/601(II)/651(II)/801(II)/851(II)/2000/4000 in USB Virtual COM mode, it is necessary to install USB virtual COM driver.

CITIZEN COM Port Monitor

If you use serial interface, use "CITIZEN COM Port Monitor" to get the printer status.
If you use 1.6x driver and CITIZEN COM, install "CITIZEN COM" prior to the driver installation.

CITIZEN TCP/IP Port Monitor

If you use LAN or wireless LAN interface, use "CITIZEN TCP/IP Port Monitor" to get the printer status.
If you use 1.6x driver and CITIZEN COM, install "CITIZEN TCP/IP port" prior to the driver installation.
If multiple PCs connect to a printer through LAN or wireless LAN and one of the PC is turned off without terminating LAN connection, the printer will check the communication between the PC and the printer and then terminate the LAN connection. Duding checking the communication, printer stops any communication with other PCs. （Max. 180 sec.）

3. Installation and uninstallation of the driver

These instructions use installation of CITIZEN CT-S801II driver to Windows 7 as the example operating system(OS). Depending on the OS, there are little differences.

This installation procedure assumes that the printer connected to the PC is not turned on before installing the driver.

Please uninstall the older drivers prior to the installation.

Avoid installing old version of driver after installation of driver of this version.

3.1 Driver installation

This installation software installs printer driver and the tools automatically.

Run installer "cts801ii_lm_v3000.exe".

Then "User Account Control" dialogue shows up. Please press "Continue".

Press "Next".

CITIZEN CT-S801II Printer Driver - InstallShield Wizard

Welcome to the InstallShield Wizard for CITIZEN CT-S801II Printer Driver

The InstallShield Wizard will install CITIZEN CT-S801II Printer Driver on your computer. To continue, click Next.

< Back   Next >   Cancel
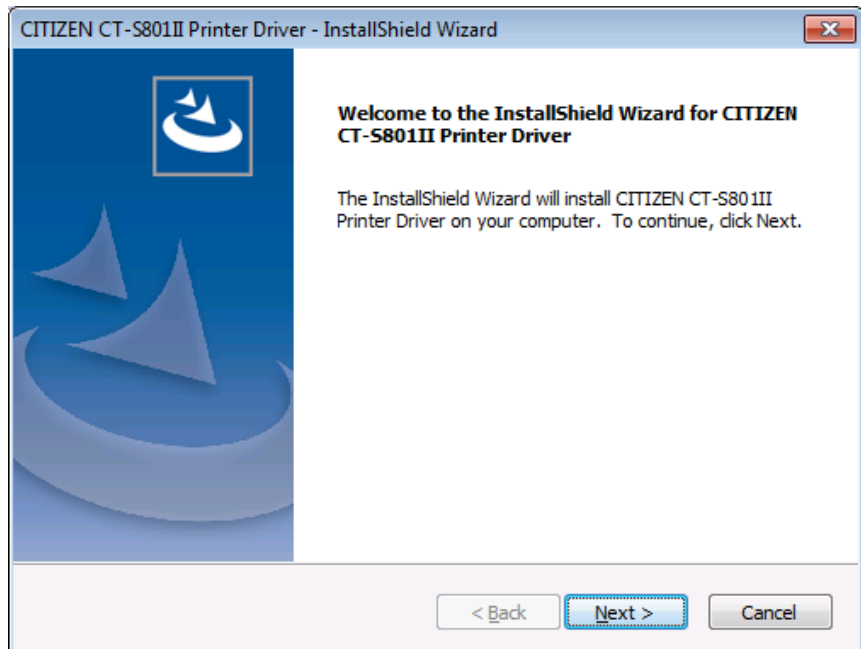
If you can accept, choose "I accept the terms of the license agreement" and press "Next".

CITIZEN CT-S801II Printer Driver - InstallShield Wizard

License Agreement
Please read the following license agreement carefully.

IMPORTANT

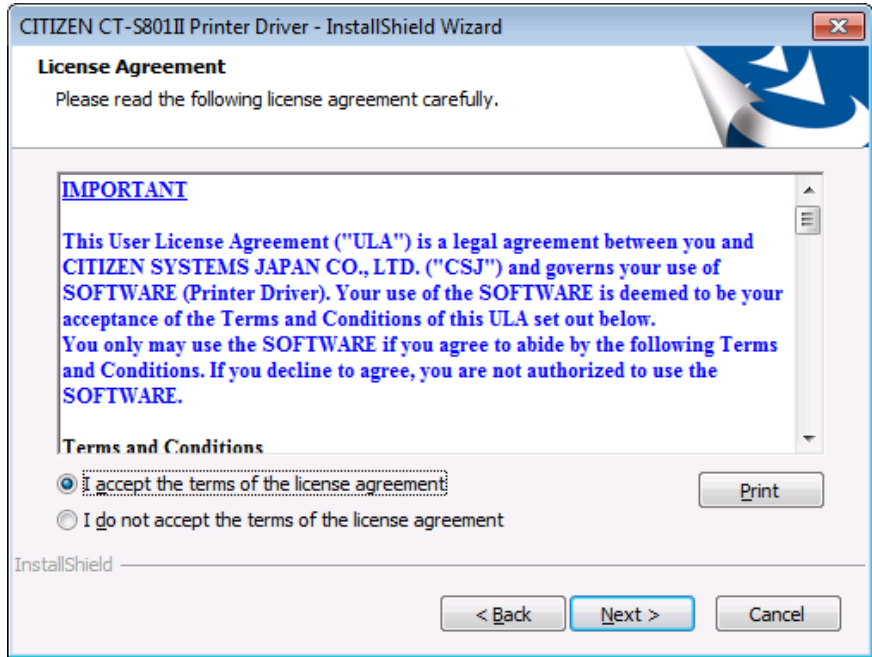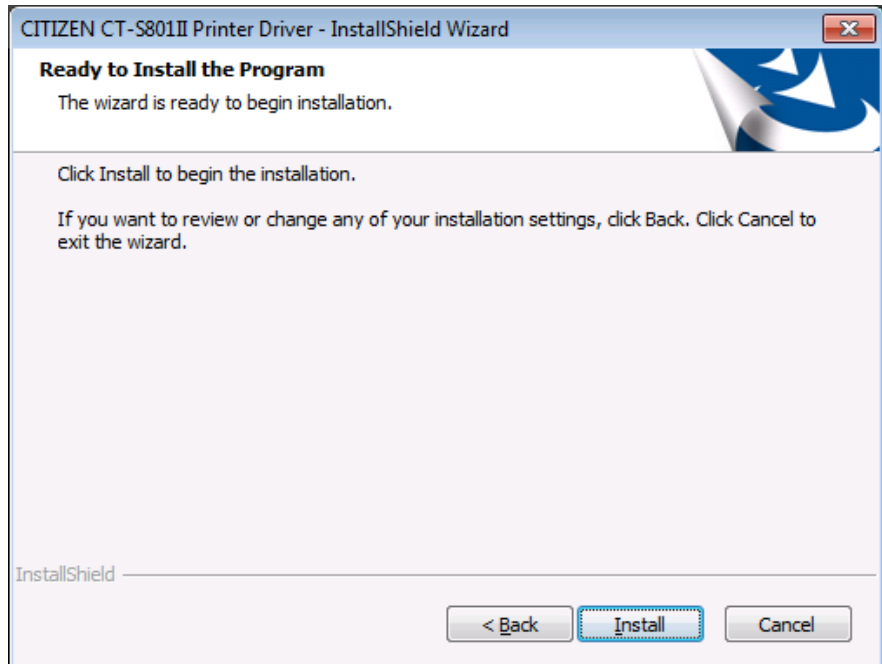This User License Agreement ("ULA") is a legal agreement between you and CITIZEN SYSTEMS JAPAN CO., LTD. ("CSJ") and governs your use of SOFTWARE (Printer Driver). Your use of the SOFTWARE is deemed to be your acceptance of the Terms and Conditions of this ULA set out below.
You only may use the SOFTWARE 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 of the license agreement
○ I do not accept the terms of the license agreement

Print

InstallShield

< Back   Next >   Cancel

Press "Install" here.

Then necessary software will be installed sequentially.

CITIZEN CT-S801II Printer Driver - 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.

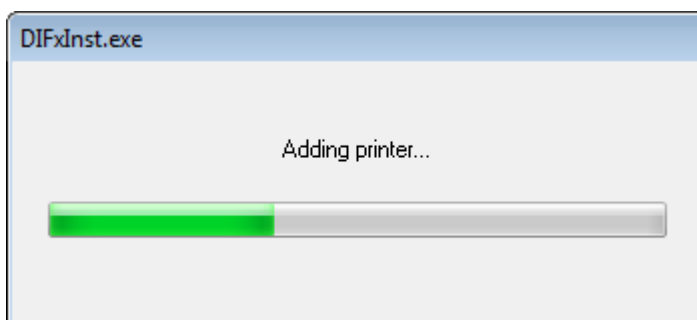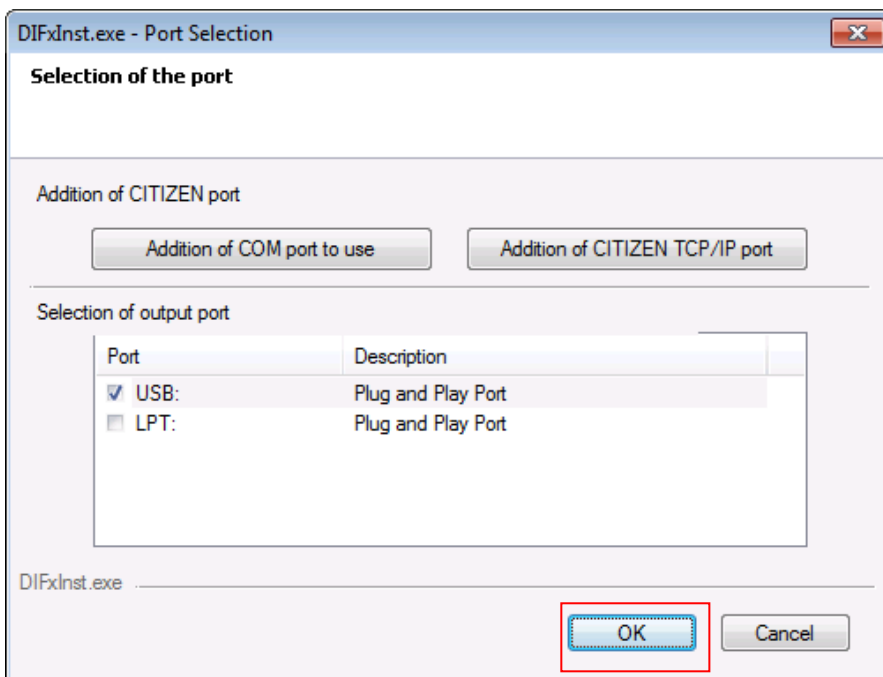InstallShield

< Back   Install   Cancel

Choose the interface for the printer.

* If USB or LPT (Plug & Play Port) is chosen, driver installation will be completed after finishing this software and connect printer to the PC. Please refer to Section 3.2 "Connecting printer and PC"

* If you use COM port, press "Addition of COM port to use" to add CITIZEN COM port. Please refer to section 3.4 CITIZEN COM port for the details.

* If you use LAN or WLAN port, install CITIZEN TCP/IP Port Monitor in advance. Then you can press Addition of CITIZEN TCP/IP port here.

Driver files are under installation.

DIFxInst.exe - Port Selection

Selection of the port

Addition of CITIZEN port

| Addition of COM port to use | Addition of CITIZEN TCP/IP port |

Selection of output port

Port	Description	
☑ USB:	Plug and Play Port	
☐ LPT:	Plug and Play Port	

DIFxInst.exe

[OK] [Cancel]

DIFxInst.exe

Adding printer...

The message shown right shows up. Please choose "Install" to go forward.

* Other OS shows different message. In any case, our driver does not harm your PC. Please go ahead.

* If selected port is non-Plug & Play port, this screen may be shown twice. In that case, please choose "Install".

When all the installation steps are finished, the right message will be shown The driver and software installation is finished. Press "Finish".
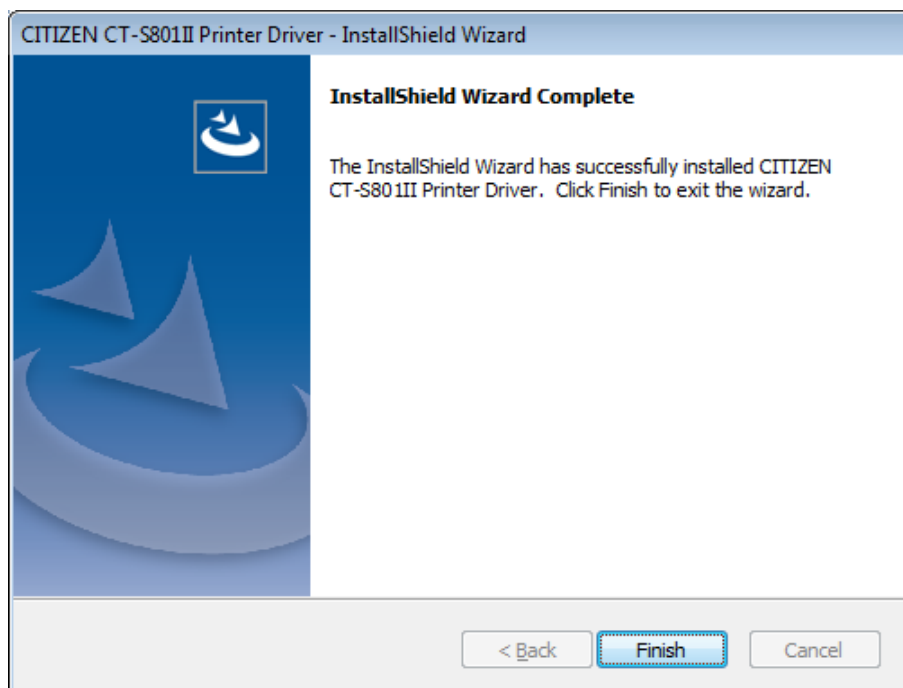
If USB or LPT is chosen as port, please refer to next section 3.2 "Connecting printer and PC".
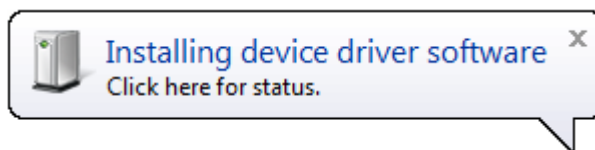
3.2 Connecting printer and PC

If the interface between printer and PC is USB or LPT, it is necessary to connect the printer and PC physically by cable and have each other recognized mutually.

（This installation procedure assumes that the printer connected to the PC is not turned on before installing the driver, but if you connect the USB or parallel (LPT) interface to the PC and install it with the power on, "Thermal Printer" icon will remain on the screen, so please turn the printer off and then on again.）

After connecting the printer and the PC, turn the printer ON.
Then the printer is automatically detected and driver installation starts.

After a while, the driver installation is completed with the message in right picture.
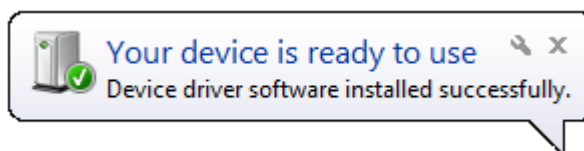
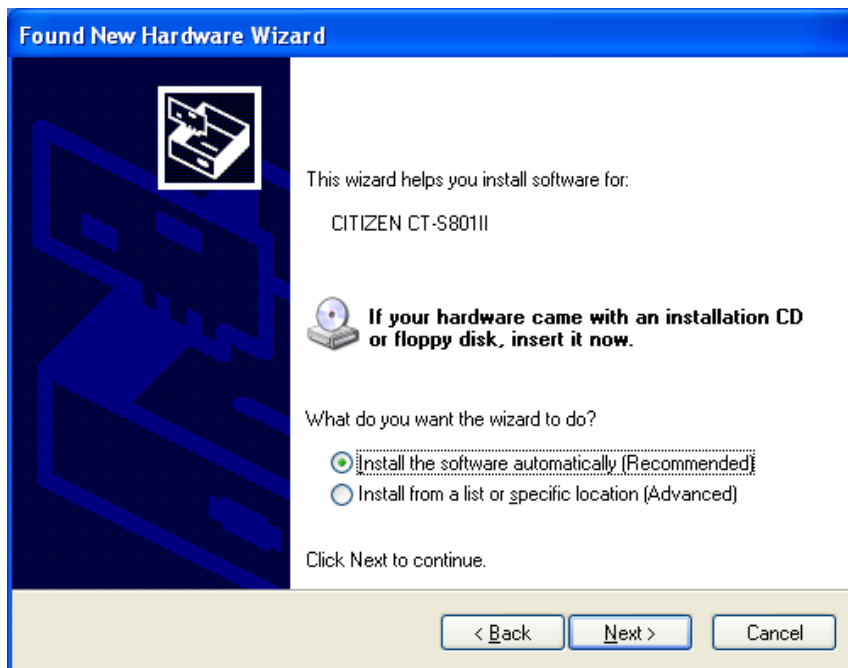* Messages and step are different on Windows XP.

After connecting the printer and the PC, turn the printer ON.
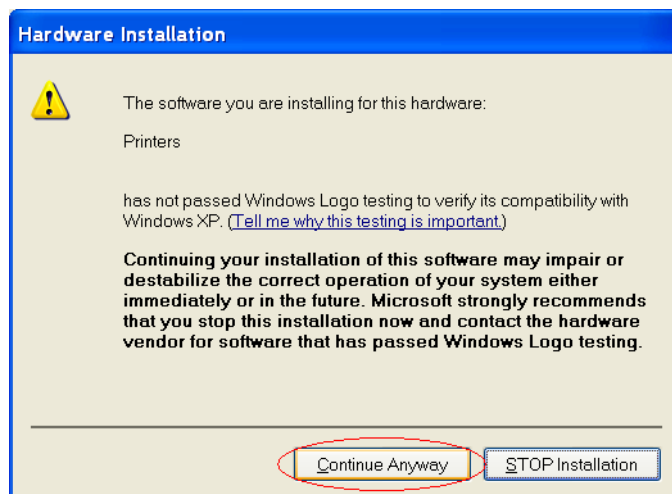If the driver does not have digital signature, the message in right picture show up.
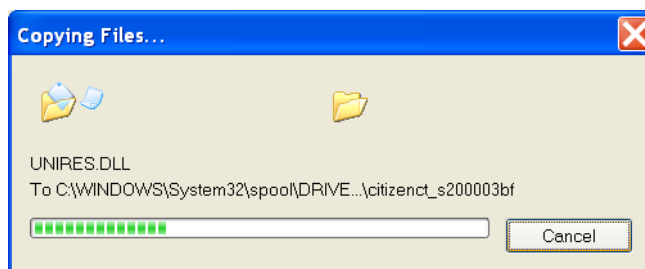For the question about Windows Update, choose、"No, not this time" and press "Next".

Choose "Install the software automatically (Recommended)" and press "Next".

Found New Hardware Wizard

This wizard helps you install software for:

CITIZEN CT-S801II

If your hardware came with an installation CD or floppy disk, insert it now.

What do you want the wizard to do?

◉ Install the software automatically (Recommended)
○ Install from a list or specific location (Advanced)

Click Next to continue.

< Back   Next >   Cancel

If printer driver does not have digital signature, the message like shown right shows up. As our driver does not harm the PC, please choose "Continue Anyway".

Hardware Installation

⚠ The software you are installing for this hardware:

Printers

has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)

Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.

Continue Anyway   STOP Installation

Driver files are under being copied to system folder.

Copying Files...

UNIRES.DLL
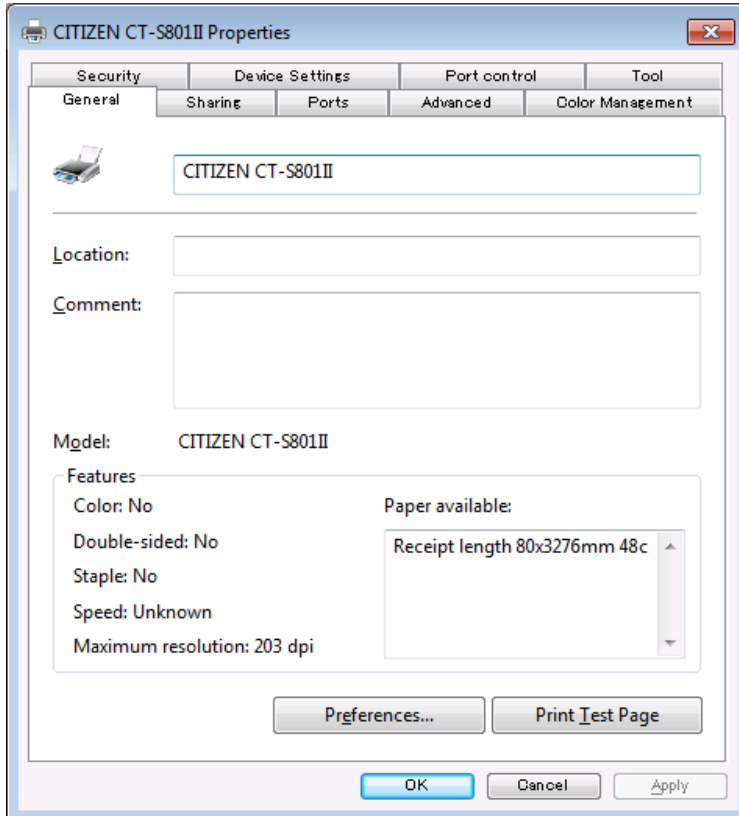To C:\WINDOWS\System32\spool\DRIVE...\citizenct_s200003bf

Cancel

Driver installation is
finished. Press "Finish".
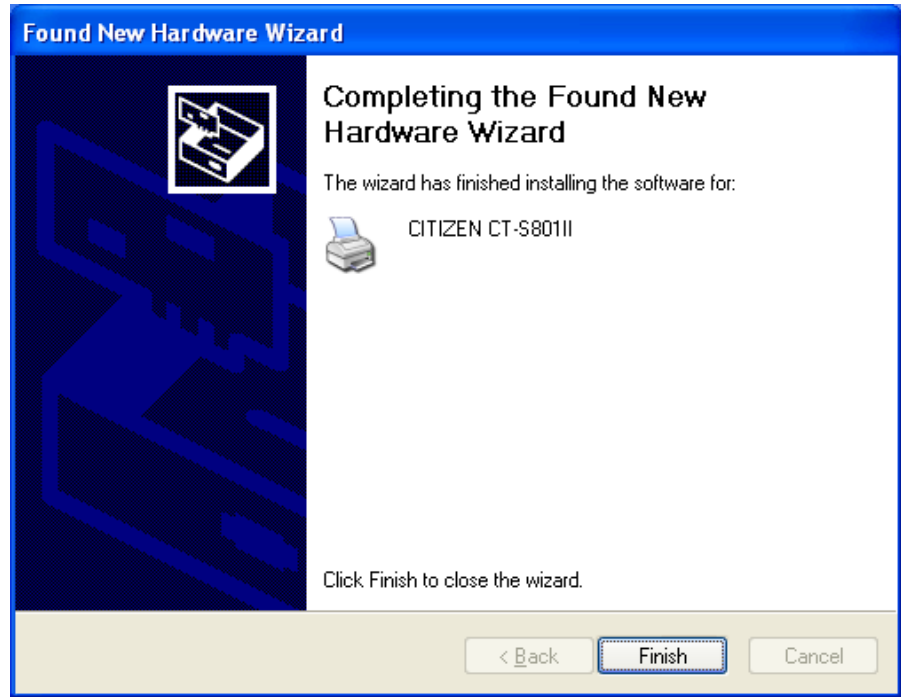
*** Caution to use with PC of Windows8 or later ***

Printing only right after the installation may not work at all. To avoid the trouble, reboot PC after the installation or show the dialogue below once prior to the actual printing.


Once this is done, there is no such trouble at all and no additional action is required after that.

3.3 Serial Interface

If serial interface port (COM1, COM2….) is chosen for the interface to the printer, it is necessary to have same setting between printer side and PC serial port setting. Serial port setting for PC side is described here. For the printer side setting, please refer to DIP switch setting or memory switch setting in the User's manual of each model.

On Windows 7, right-click at printer icon and "Printer Properties" from the drop down menu.
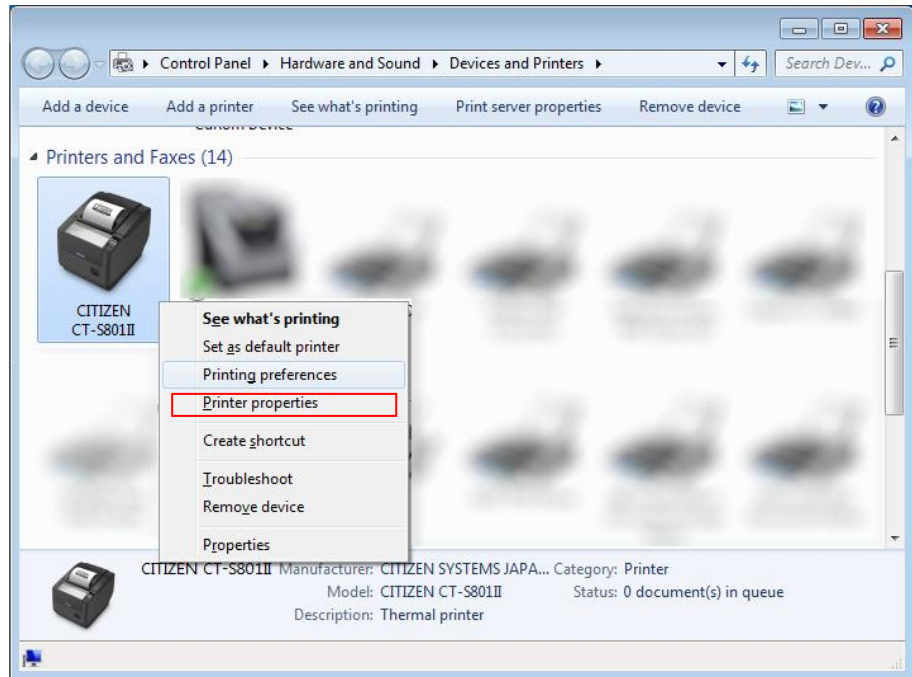
By choosing "Ports" tab on printer properties, the port for printer driver can be changed.
To change serial port setting , press "Configure Port"
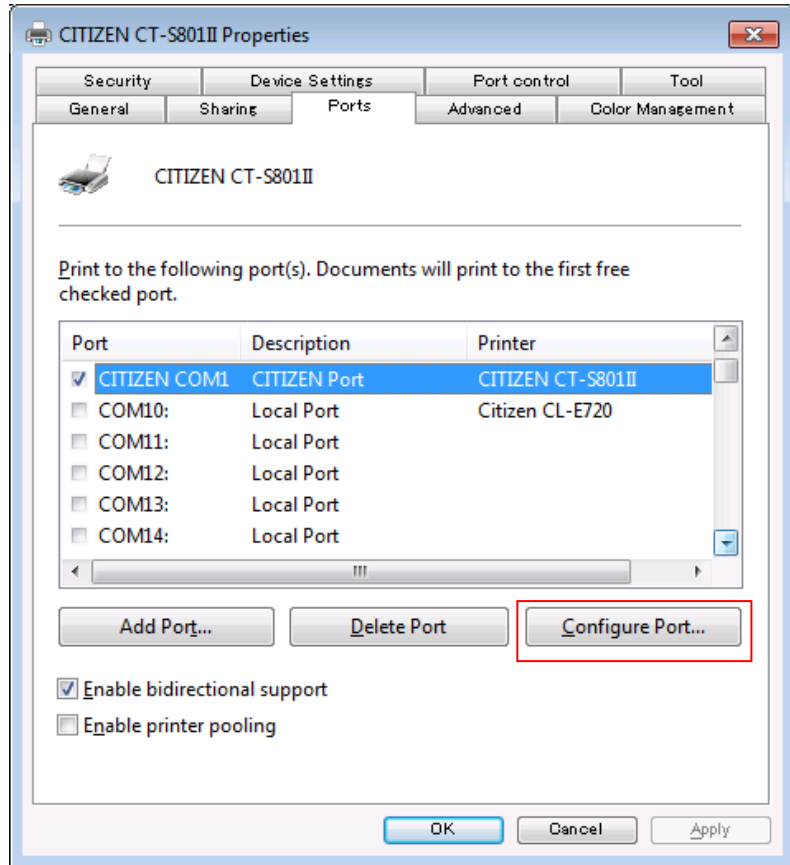
Please change the setting according to the serial port condition of printer and press "Apply".

Serial port setting is done.
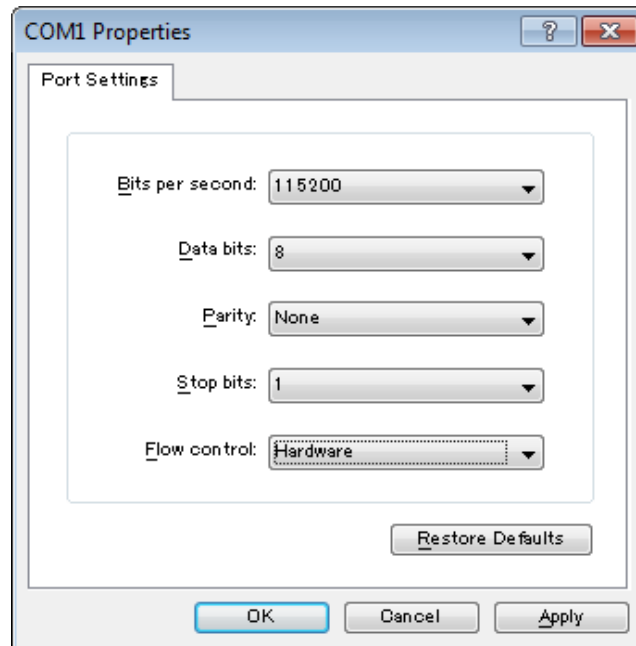
3.4 CITIZEN COM PORT

To use status function of the driver through serial interface, it is necessary to create CITIZEN COM port. It is possible to create CITIZEN COM Port by assigning existing serial port in following steps.

As shown in the right picture, press "Addition of COM port tor use" button or on the Start menu, choose "CITIZEN" – "Driver Port" – "Assign COM port for printer"
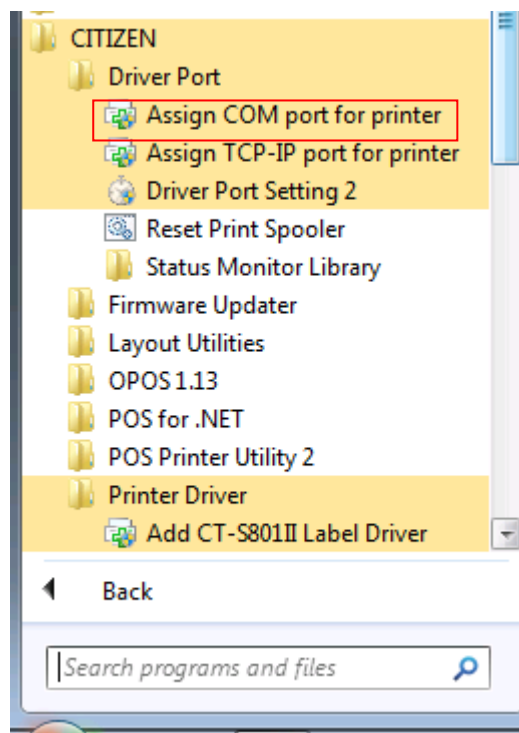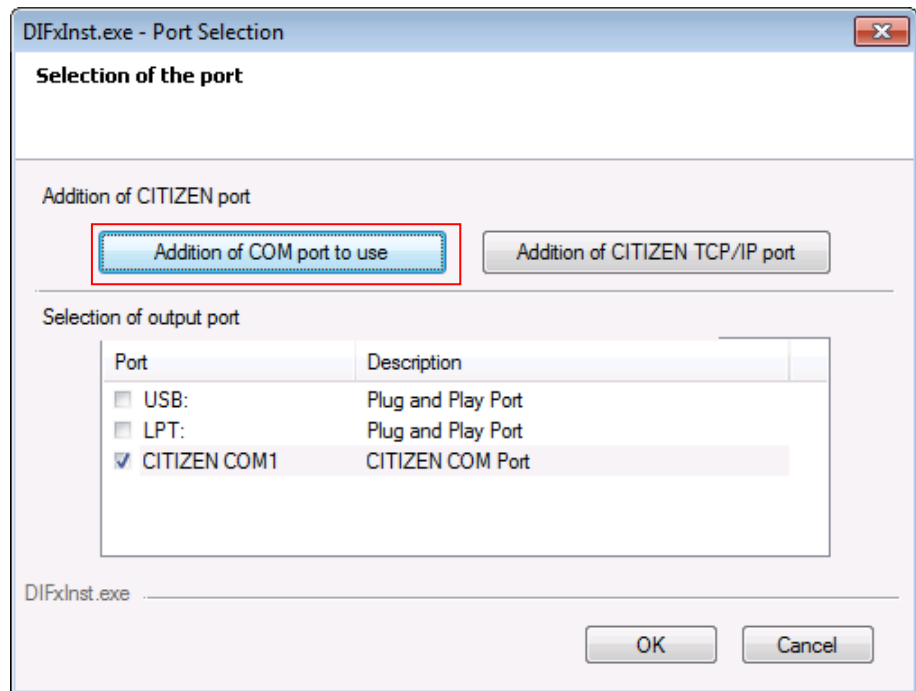
Choose the existing serial
port to assign to CITIZEN
COM port.
** Virtual COM port can be
  used same way as
  standard COM Port.
Set the details of port for
serial communication
condition accordingly and
press "OK".
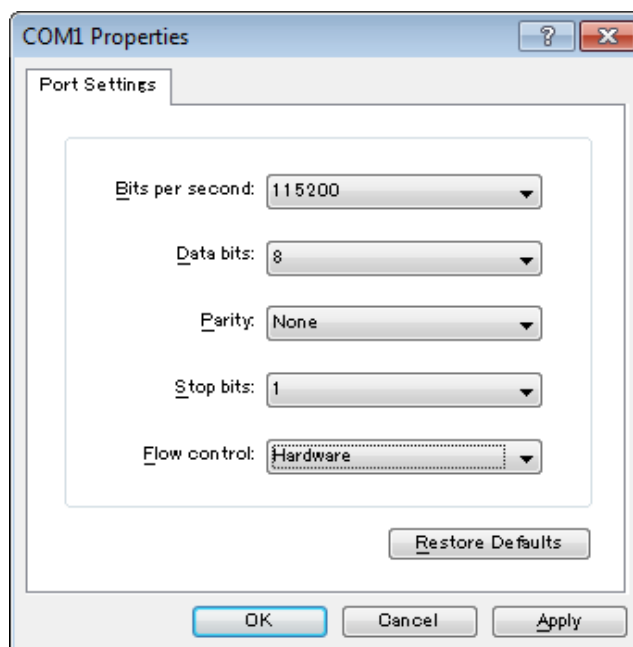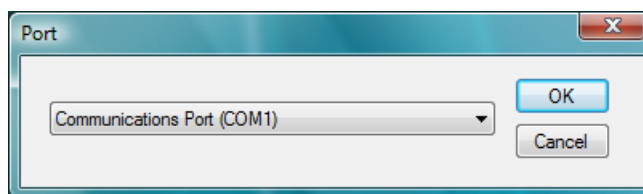
Port is created as per the right picture.

CITIZEN CT-S801II Label Properties

| Security | Device Settings | Port control | Tool |
| General | Sharing | Ports | Advanced | Color Management |

CITIZEN CT-S801II Label

Print to the following port(s). Documents will print to the first free checked port.

Port	Description	Printer
☑ CITIZEN COM1	CITIZEN Port	CITIZEN CT-S801II Labe
☐ COM10:	Local Port	Citizen CL-E720
☐ COM11:	Local Port	
☐ COM12:	Local Port	
☐ COM13:	Local Port	
☐ COM14:	Local Port	

Add Port...   Delete Port   Configure Port...

☑ Enable bidirectional support
☐ Enable printer pooling

OK   Cancel   Apply

---

* If status function is used through normal serial port without choosing CITIZEN COM, there could be trouble of PC freeze by waiting for status data from printer for about 30 seconds.

3.5 CITIZEN TCP/IP PORT

To use status function of the driver through LAN or wireless LAN interface, it is necessary to have CITIZEN TCP/IP port.

An existing IP address needs to be assigned to the TCP / IP port monitor. Please follow the procedure below.

As shown in the right picture, press "Addition of CITIZEN TCP/IP port" button to add new CITIZEN TCP/IP port. Or from the Start menu, select "CITIZEN" - "Driver Port" - "Assign TCP-IP port for printer"
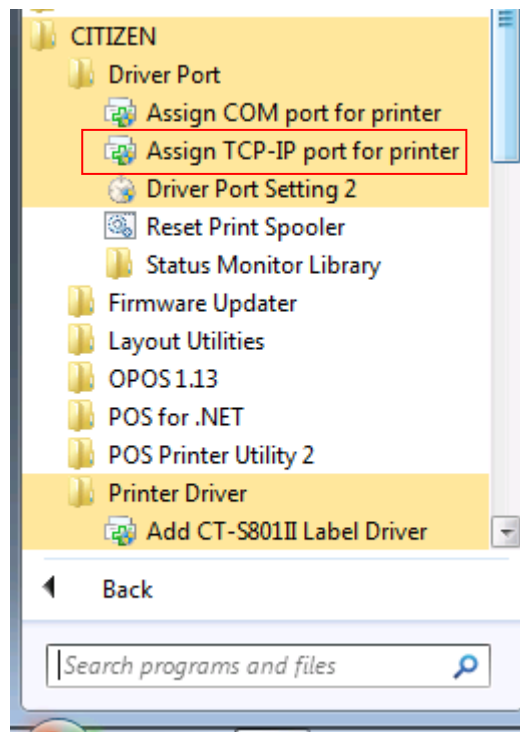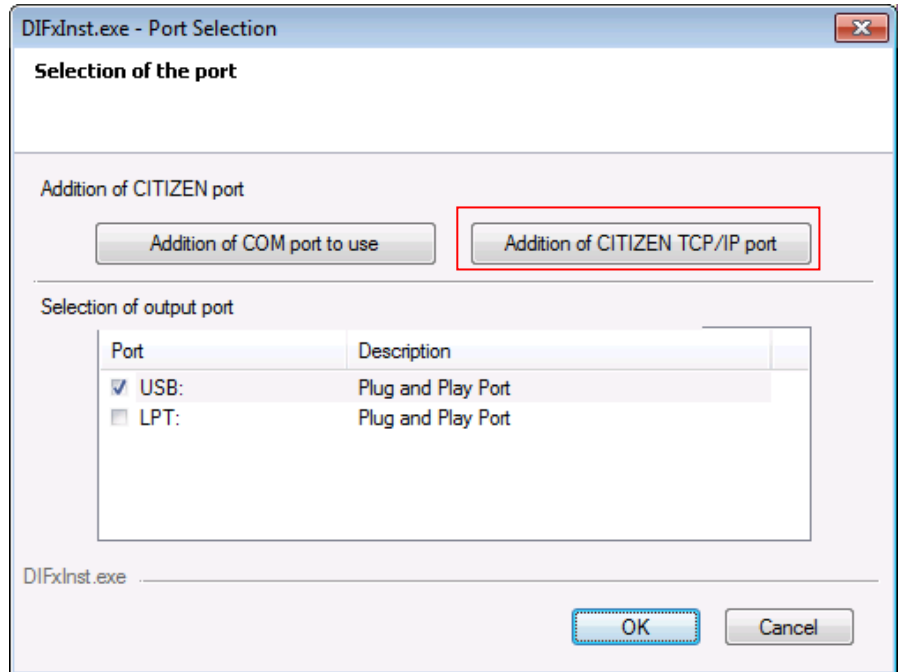
Check the IP address assigned to the printer and enter it in "Port Name". "Host Name or IP" is automatically entered in conjunction with the entered IP address. Change "Host Name or IP" as necessary.

It is not necessary to change the port number of Raw Protocol Setting normally. Please change only when network side of the printer is changed.

SNMP Monitor Setting selects the method for acquiring status information. SNMP is a status acquisition method that can be used only on the network, and if SNMP is selected, you can expect problems due to the conventional status acquisition method such as time-consuming printing and printing failure are solved. However, depending on the model of the printer, firmware version, interface board, etc., status acquisition by SNMP cannot be done or the type of printer status obtained may be reduced.

Please click "OK" when setting is completed.

In order to confirm the installation was done correctly, right click on the printer icon => "Printer Properties" =>"Ports" tab.
And check if "CITIZEN TCP / IP Port" is added to the description of the port.
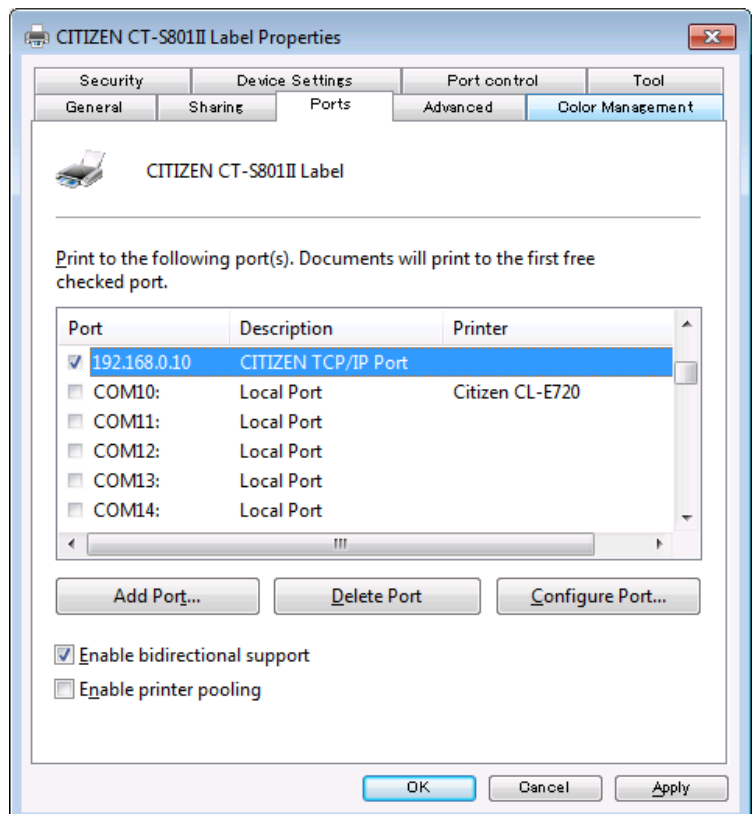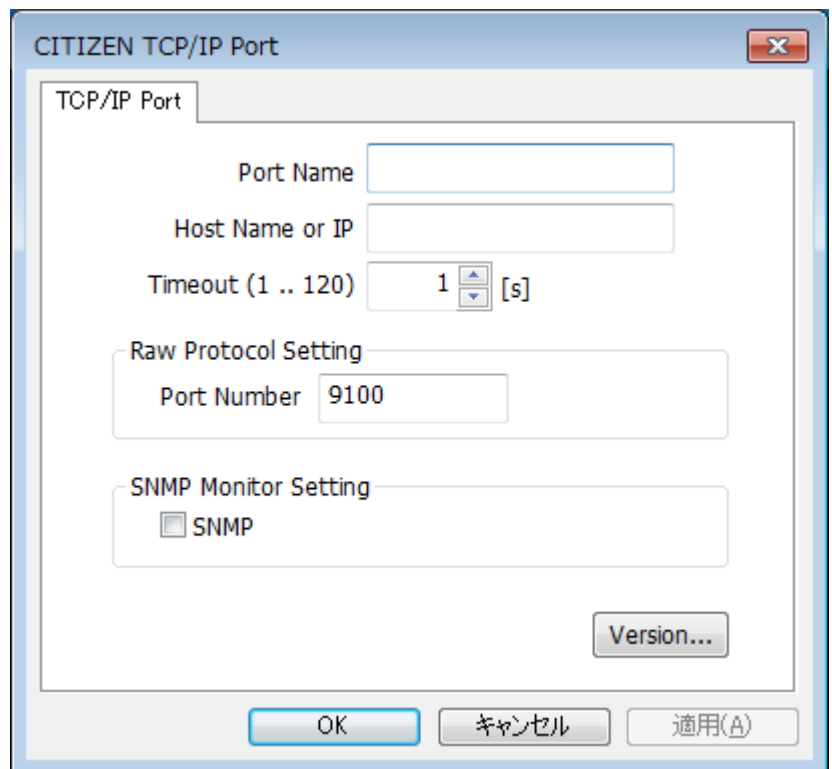
3.6 Additional driver installation

If you want to install additional driver to non-plug & play port such as serial interface, please follow the steps below.

As shown in the right picture, choose "CITIZEN" - "Printer Driver"- "Add CT-S801II Driver"
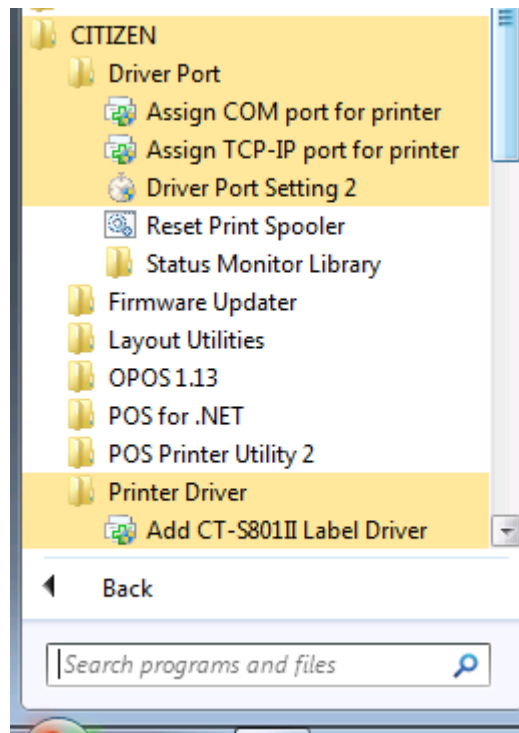
Choose interface that the printer is connected and press "OK".
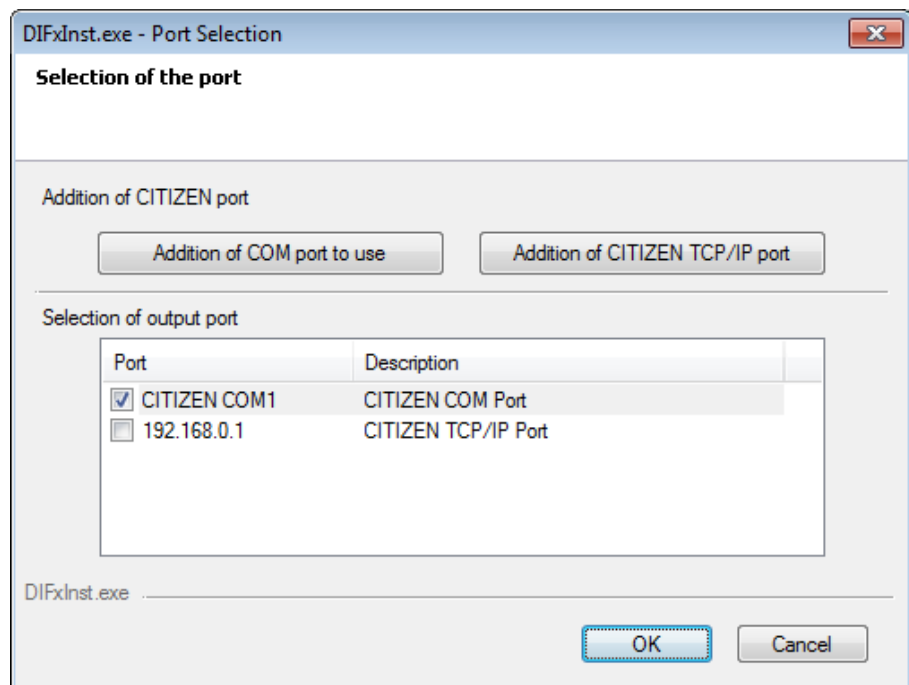
Additional printer diver is
installed as (Copy 1).
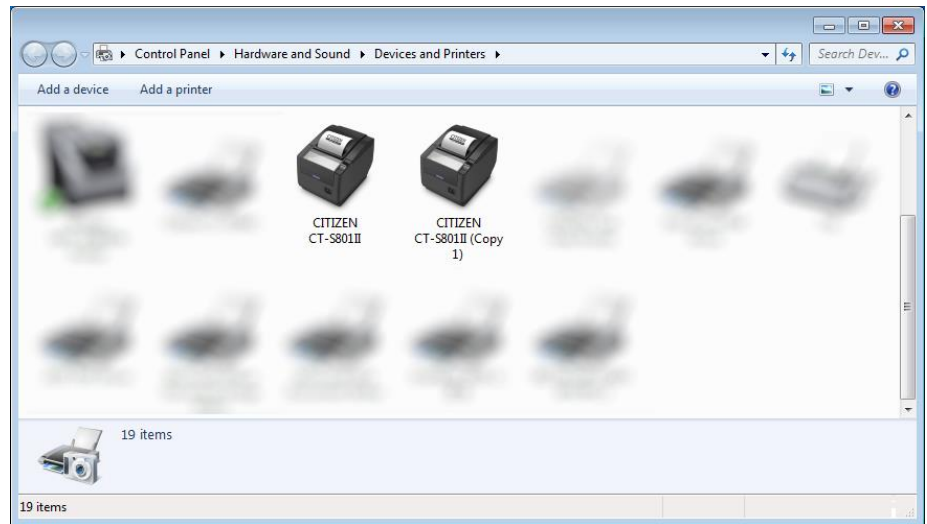
* Once driver for the model is installed, additional driver installation to Plug & Play port (=USB or LPT)
  can be done automatically just by connecting printer to the port.
* Uninstalling whole drivers can be done as per the explanation in section "3.7 Uninstallation".

3.7 Uninstallation

Uninstallation of driver and software can be done from "Control Panel" --> "Programs and Features"
（The name may be "Add or Remove Programs" depending on OS.）
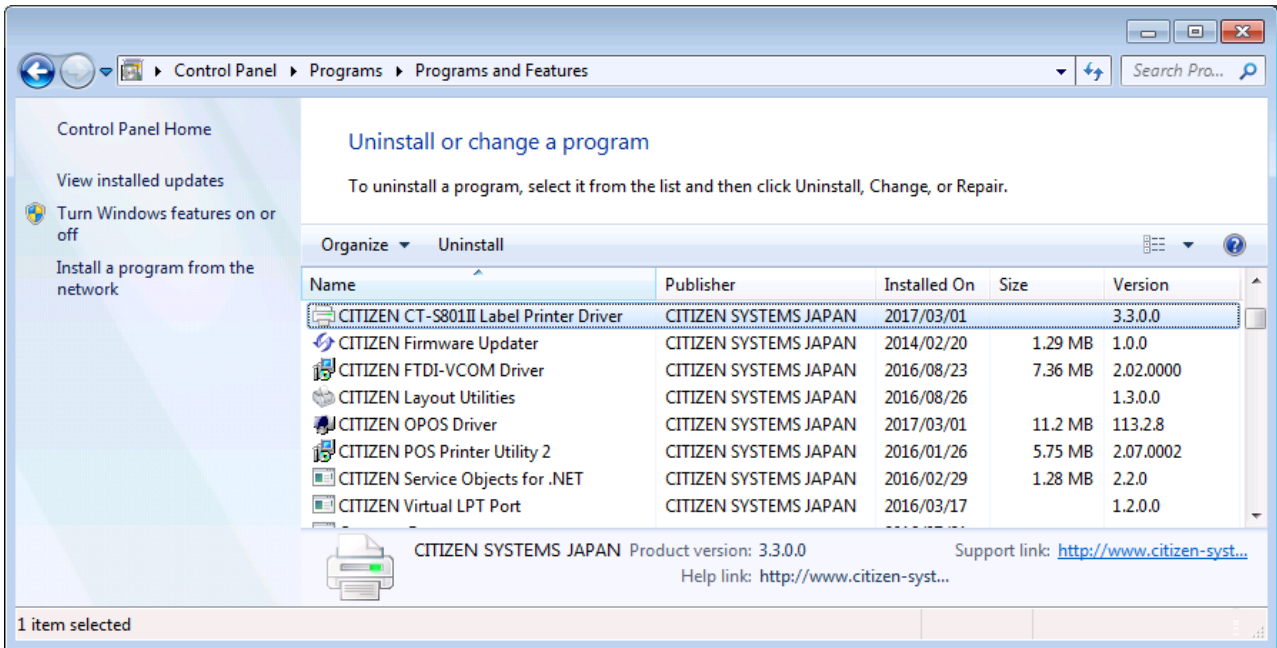
Choose "CITIZEN CT-S801II Printer Driver" to uninstall CT-S801II printer driver.

When multiple drivers are installed, depending on conditions, you may be asked to restart at uninstallation. Please restart according to the instructions.
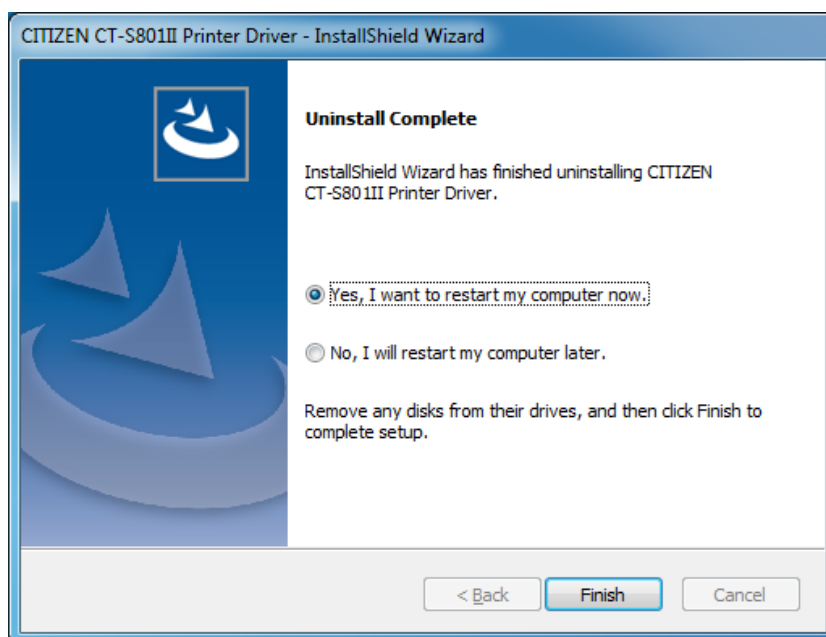
3.8 Remarks for installation and uninstallation

*The serial port settings on both the printer and PC need to match. If the setting does not match, it may cause no printing, garbage characters printing and so on.

*If the driver uses COM port, other application to use same COM port may not work. In this case, you may be able to avoid the trouble by changing the COM port of the printer driver tentatively to other port.

* Once a USB port is used for driver installation, please do not use other USB port. If other USB port is used, it may not be possible to print correctly. If it happens, it may be necessary to uninstall the driver and install the driver again.

*If POS Printer Utility is used right after driver installation through Plug & Play port, it may cause communication failure. If it happens, reboot PC to have stable communication.

* When you try to install the driver, if the driver for same model already exist on the same PC, please uninstall the existing driver first and then run Setup software. To uninstall the driver, please follow the instruction depending on the installation type. If the installation is done by Setup software, uninstallation should be done as mentioned in former section 3.4. If the driver installation is done by manually, uninstallation should be done manually. The installation manual for manual installation explained for that. And the document is supplied separately.

* With USB interface, installation failed by some reason and not possible to uninstall, printer may be recognized as Unknown device in Device Manager of Control Panel. In such case, delete the unknown device from Device Manager.

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 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
2-4	Full column print	ON	Wait data
3-1	Auto cutter restore	OFF	L/F enabled
3-3	Parallel 31Pin (when USB IF is 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	-
8-4	Line Gap Reduce	Invalid	-
8-5	Reduced Char	100% / 100%	-
9-1	Code page	Katakana	-
9-2	Foreign language characters	Japan	-
9-3	Kanji	Enabled	-
9-4	JIS/Shift-JIS	Shift-JIS	-

4.2 CT-E351 Series

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	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
2-4	Full column print	ON	Wait data
3-1	Auto cutter restore	OFF	L/F enabled
3-3	Parallel 31Pin (when USB IF is 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	-
8-4	Line Gap Reduce	Invalid	-
8-5	Reduced Char	100% / 100%	-
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-S251 Series

<u>Memory Switch Setting</u>

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
2-4	Full column print	ON	Wait data
3-1	Auto cutter restore	OFF	L/F enabled
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	-
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	Foreign language characters	Japan	-
9-3	Kanji	Enabled	-
9-4	JIS/Shift-JIS	Shift-JIS	-
13-6	Auto Reconnect (when Bluetooth interface is used)	Invalid	-

4.4   CT-S281 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 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
2-4	Full column print	ON	Wait data
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	-
13-6	Auto Reconnect (when Bluetooth interface is used)	Invalid	-

4.5   CT-S310 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 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
2-4	Full column print	ON	Wait data
3-1	Auto cutter restore	OFF	L/F enabled
3-3	Parallel 31 Pin (when USB and parallel IF are used)	OFF	Reset
3-7	CBM1000-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	-

4.6 CT-S310II Series

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	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
2-4	Full column print	ON	Wait data
3-1	Auto cutter restore	OFF	L/F enabled
3-3	Parallel 31Pin (when USB IF is 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	-
8-4	Line Gap Reduce	Invalid	-
8-5	Reduced Char	100% / 100%	-
9-1	Code page	Katakana	-
9-2	Foreign language characters	Japan	-
9-3	Kanji	Enabled	-
9-4	JIS/Shift-JIS	Shift-JIS	-

4.7   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 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
2-4	Full column print	ON	Wait data
3-1	Auto cutter restore	OFF	L/F enabled
3-2	PE output at PNE	ON	Invalid
3-3	Parallel 31Pin (when USB and parallel IF 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 and parallel IF are used)	Before BUSY	-

4.8   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 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
2-4	Full column print	ON	Wait data
3-1	Auto cutter restore	OFF	L/F enabled
3-2	PE output at PNE	ON	Invalid
3-3	Parallel 31Pin (when USB and parallel IF 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	-
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	Foreign language characters	Japan	-
9-4	Multi-byte Char	SJIS(CP932)	-
10-3	ACK output timing (when USB and parallel IF are used)	Before BUSY	-
13-6	Auto Reconnect (when Bluetooth interface is used)	Invalid	-

4.9   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 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
2-4	Full column print	ON	Wait data
3-1	Auto cutter restore	OFF	L/F enabled
3-3	Parallel 31Pin (when USB and parallel IF 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 and parallel IF are used)	Before BUSY	-

4.10 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 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
2-4	Full column print	ON	Wait data
3-1	Auto cutter restore	OFF	L/F enabled
3-3	Parallel 31Pin (when USB and parallel IF 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 and parallel IF are used)	Before BUSY	-

4.11 CD-S500 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
SoftCtrl-1	Command Type	EPSON	-
SoftCtrl-5	Paper End (when USB and parallel IF are used)	DIS	At paper end Only Busy signal is output.
SoftCtrl-6	Paper Near-End (when USB and parallel IF are used)	DIS	At paper near-end Signal not output
SoftCtrl-8	Print Direct (Specifies print direction)	BI-DIR	Print from right or left end nearer from the print stop position.
SoftCtrl-9	Auto LF	OFF	-
SoftCtrl-11	Buffer Size	4Kbyte	-
SoftCtrl-12	Init Signal	ENB	Initialize signal enabled
Mechanical-2	Auto-Cutter	FREE	-
Mechanical-3	Color Ribbon	ON	Command switching

Addendum

Type of printer status acquired by Windows + Driver (CITIEN TCP/IP port) +SNMP

Standard status

Status of printer	Message on spooler	Message on driver list
Cover open	Door Open	Door open
Paper end	Out of Paper	Paper out
Paper near end	Paper Problem	Paper problem
Cutter error	User Intervention Required	User intervention
Head over-heat	User Intervention Required	User intervention
FEED key pressed	User Intervention Required	User intervention
Interface cable disconnected	Offline	Offline
Printer power off	Offline	Offline
Printer offline	Offline	Offline

(Paper near end status cannot be acquired on No paper near end sensor model)

Restricted status

Status of printer	Message on spooler	Message on driver list
Cover open	Door Open	Door open
Paper end	Out of Paper	Paper out
Paper near end	Paper Problem	---
Cutter error	Offline	Offline
Head over-heat	Offline	Offline
FEED key pressed	Offline	Offline
Interface cable disconnected	Offline	Offline
Printer power off	Offline	Offline
Printer offline	Offline	Offline

Differenced from "Standard status" are mentioned in red.

Model and firmware version supporting standard status

Printer Model	Firmware version
CT-S251	Next version or later
CT-E351 CT-D150	Next version or later
CT-E651 CT-D151	EU00-0400 or later
CT-S751	From first version
CT-S310II	DT10-1200 or later
CT-S6xxII / CT-S8xxII	xx00-0800 or later
CT-S4500	From first version

Status acquisition on models / versions that does not support SNMP standard status shows restricted status or status acquisition by SNMP can not be performed.