

Print Server IF1-ET01

User's Manual



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Be sure to read this manual carefully before using the product. After you read it, store it in a safe place so that you can reread it when necessary.

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- Reproducing and/or copying the contents of this manual by any means without permission is prohibited.
- We will not be responsible for any adverse occurrence that results from the use of this manual, regardless if it contains omissions, errors/misprints, etc.
- Note that we will not be responsible for (a) loss caused by improper operation or mishandling of the device by the user, or (b) loss due to operational environment.
- Data etc., are basically impermanent; long time or permanent storing/saving of data by the device is not possible.
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- Before handling the product (removing from packaging, etc.), discharge static electricity by touching metal, etc.
- Do not spill liquid onto the device.
- Do not place the device in a humid place.
- Do not step on, or subject the network cable connected to the device to rough treatment.
- Do not connect a telephone line to the RJ45 connector on the device. Be sure to connect the STP cable (category 5 or higher).
- Connect the product only to devices that operate on SELV voltage (safety extra-low voltage).
- Be sure to use the device inserted in the interface board slot of the printer. Do not use the device when it is not inserted in the interface board slot.

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1 Introduction

Thank you for purchasing our CITIZEN Print Server.

This print server is compatible with the Line Thermal Printer CT-S801 series and the CT-S601 series, etc. Connecting the device to a printer enables you to relay data between a network of multiple computers and the printer. In addition, the computers and printer will be able to communicate with each other: the operational status of the printer, print settings, etc. can be checked from the computers.

1-1 Checking the Package

Please check to see if the print server itself and the accessories mentioned below are all included. If anything is missing, contact your Citizen Systems dealer.

When the printer comes with the main unit of the print server already installed, the package contains only the Quick-start Guide and CD-ROM.

• Main unit



• Quick-start Guide



• CD-ROM



User's Manual (this document) Port driver installer Port driver installation manual

1-2 Part Names and Functions



Operation panel



- RJ45 connector (compatible with 10Base-T/100Base-TX) Connects network cable to device.
- ② Network transmission speed indicator^{*1} Shows network communication speed with steady / blinking green light.
- **③** Network status indicator^{*1}

Shows network connection status ("disconnected," "receiving data," etc.) with yellow light.

④ Device status indicator^{*1}

Shows operational status of the device with combinations of steady and blinking lights (red and green).

(5) Panel button^{*2}

Used to operate the device.

- *1 See 4-2, LED Functions (p.15) for indicator content.
- *2 See 4-1, Using the Panel Button (p.14) for panel button operations.

2 Preparing the Print Server

2-1 Connecting to the Printer

If the main unit of the print server is already installed in the printer, proceed to 2-2, Connecting to the Network (p.9).

CAUTION

- To install the print server, please contact your Citizen Systems dealer or service person.
- Do not pull the print server out of the printer and re-install it. This could cause malfunctioning.

Preparing the printer

- 1) Turn off the printer.
- 2) Remove the power cord from the printer.



3) If another interface board is installed in the printer, remove it.



• Connecting the device to the printer

4) Insert the device into the interface slot of the printer.

- 5) Connect the device's interface connector to the interface connector inside the printer.
- 6) Fix the device in place with screws.



2-2 Connecting to the Network

Connecting the network cable

- Connect the network cable to the device's RJ45 connector.
- 2) Connect the power cord to the printer.



Setting the IP address

Set the IP address for the printer in order to connect it to the network.

3) Turn on the printer.

After the printer is turned on, the device will automatically obtain the IP address from the DHCP server within 60 seconds. If the IP address cannot be obtained automatically, the static IP address (169.254.1.10) that had been set in this device before it left the factory will be applied.

 Press the panel button.
 The IP address and other settings will be printed.



3 Preparing the Computer

3-1 Installing the Software

The TCP/IP port driver (CITIZEN TCP/IP Port) can be easily installed using the installer. The installer is included in the same CD-ROM as this manual.

CAUTION

To use this software, a compatible printer driver needs to be installed. Before or after installing this software, install the printer driver (Version 2.00 or later) for line thermal printers.

The printer driver for line thermal printers is included in the CD-ROM that comes with a line thermal printer, or obtained from our website.

• When installing in Windows Vista

The following describes the procedure for installing the TCP/IP port driver (CITIZEN TCP/IP Port) in the computer in which the printer driver for the line thermal printer CT-S801 has been installed.

- 1) Click the "CITIZEN TCP/IP Port Installer" on the menu screen in the CD-ROM. To install manually, double click the software installer, "CSPortTcpMonSetup.exe".
- 2) If the "User Account Control" screen appears, click "Continue."



 The screen shown on the right will appear. Click "Next."



 After thoroughly reviewing the License Agreement, select "I accept the terms of the license agreement" and click "Next."

CITIZEN Printer TCP-IP Port - InstallShield Wizard	×
License Agreement Please read the following license agreement carefully.	4
IMPORTANT This User License Agreement ("ULA") is a legal agreement between you and CITIZEN SYSTEMS JAPAN CO., LDD. ("CSJ") and governa your use of SOFTWARE (frainer 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.	4 III
Terms and Conditions	Ŧ
I accept the terms of the license agreement	
I do not accept the terms of the license agreement	
InstallShield	
< <u>Back</u> Next> Cance	a

5) The software installation will start.

CITIZEN Printer TCP-IP Port - InstallShield Wizard	x
Setup Status	X
The InstallShield Wizard is installing CITIZEN Pinter TCP-IP Port	
InstallShield	Cancel

- The "CITIZEN TCP/IP Port" screen will appear. Enter the "Port Name," "IP address," and "Communication Timeout."
 - ① Port Name
 - ② Host Name or IP
 - When you enter the IP address (e.g., 192.168.128.210) in "Port Name," the same IP address will be automatically entered in "Host Name or IP." Change the "Host Name or IP" if necessary.
 - ③ Timeout (time for communication timeout)
 Change as needed.



3 Preparing the Computer

- 7) When setup is completed, click "OK."
- 8) Click "Finish" to complete installation.

CITIZEN Printer TCP-IP Port - In	stallShield Wizard
	InstallShield Wizard Complete The InstallShield Wizard has successfully installed CITIZEN Printer TCP-IP Port. Click Finish to exit the wizard.
	< Back Finish Cancel

9) Open the properties screen for the CT-S801 printer. Open the "Ports" tab and confirm that the CITIZEN TCP/IP Port has been added with the Port Name that has been set.

Color Management	Security	Device Set	tings	Tool
General	Sharing Ports Advanced		lvanced	
CITIZEN CI	-S801 ort(s). Documents	will print to the f	irst free	
Port	Description	Printe	r	
COM3:	Serial Port			
COM4:	Serial Port			
FILE:	Print to File			
XPSPort:	Local Port	Micro	SOTT XPS	Docun =
192.100.120.210	CITIZEN ICF	71F FOIL CITIZ	ENCI-	-
•	111			F.
Add Port	Delete I	Port	Configure	Port
Enable bidirectional	support			
Enable printer pooli	1q			
	-			

Software installation is now complete.

Installing in other operating systems

The software can be installed in Windows 2000 (SP4), Windows XP, Windows Server 2003, and Windows 7 by using almost the same procedure as installing in Windows Vista.

Click the "CITIZEN TCP/IP Port Installer" on the menu screen in the CD-ROM to start installation. To install manually, double click the software installer, "CSPortTcpMonSetup.exe" to start installation. Continue the installation by following the display on the screen.

3-2 Changing Settings

After you install the TCP/IP port driver, changing the IP address or other settings are to be done on the "CITIZEN TCP/IP Port" screen. To get to the "CITIZEN TCP/IP Port" screen, go to the "printer properties" screen or access it from the "start" menu.

 On the "printer properties" screen, open the "Ports" tab and select "Configure Port..." The "CITIZEN TCP/IP Port" screen will appear.

Alternatively, you can go to the "start" menu and select "CITIZEN," then "Driver Port," and then "Assign TCP-IP port for printer." The "CITIZEN TCP/IP Port" screen will appear.

2) After changing a setting, click "OK."

CITIZEN CT-S801 Pro	operties		×
Color Management	Security Der	vice Settings	Tool
General	Sharing Port	s Ac	dvanced
CITIZEN CT	-S801	to the first free	
checked port.	Description	Printer	*
COM3: COM4:	Serial Port Serial Port Print to File		
XPSPort: 192.168.128.210	Local Port CITIZEN TCP/IP Port	Microsoft XPS CITIZEN CT-	S Docun ≡ S801
•			•
Add Port	Delete Port	Configure	e Port
 Enable bidirectional Enable printer poolin 	support g		
	ОК	Cancel	Apply



CITIZEN TCP/IP Po	rt	x
TCP/IP Port		
	Port Name	
	Host Name or IP	
Ti	meout (1 120)	1 📩 [s]
Protocol	Raw	
@ Raw	Port	9100
	LPR	
	Queue	
C LPR	Spool All J	ob
SNMP		
	Community Name	public
	Device Index	1
In	terval (10 600)	180 🔺 [s]
		Version
	ОК	Cancel Apply

4-1 Using the Panel Button

The panel button on the operation panel is used to operate the device. You can use it to print settings information and restore factory default settings.



Launching the print server

Turn on the printer. The device will be launched together with the printer.

Printing the settings information

Press the panel button. See 6-1, Printing Print Server Configuration (p.22) for details.

Switching to the setting mode

Press and hold the panel button. A buzzer* will sound once, signaling a switch to the setting mode.

- The setting mode enables confirmation of factory default settings and printing of firmware information.
- If there is no activity for three seconds in the setting mode, a buzzer* will sound once, signaling a return to the normal mode.
- * Note that the buzzer will not sound if the printer's buzzer is disabled.

Restoring to the factory default settings

Switch to the setting mode, then press and hold the panel button. The device will return to the factory default settings.

CAUTION

When the operation is complete, the device will restart automatically. When the device is set to automatically obtain the IP address through the DHCP server, the IP address assigned may be different from the previous one.

4-2 LED Functions

The following charts show what each LED indicator indicates.



(1) Network transmission speed indicator

Transmission speed	LED (green)
100Mbps	Steady light
10Mbps/disconnected	No light

② Network status indicator

Display content	LED (yellow)
Connected	Steady light
Disconnected	No light
Receiving data	Blinking light

③ Device status indicator

Display content	LED (red)	LED (green)	Description
Printer: disconnected	-	No light	Not connected to printer.
Printer: connected	-	Steady light	Connected to printer.
Network: disconnected	No light	-	Not connected to network.
Seeking IP address	Blinking light	-	Seeking IP address from DHCP server.
	(0.5 second cycle)		
Network: connected	Steady light	-	Network setting is complete.
Resource error	Alternating blinking	g (0.5 second cycle)	The device is malfunctioning
System error	Alternating blinking	g (0.1 second cycle)	The device is malfunctioning

5 Using the Print Server Home Page

Using a Web browser, you can go to the print server homepage to check or change the settings of the device, or to check the operational status of the printer.

Accessing the print server homepage

 Launch your browser and go to the URL of the print server homepage. For the URL, enter the IP address assigned to the printer. (For example, if the IP address is "169.254.1.10", enter "http:// 169.254.1.10".)

2) The menu page of the print server homepage will appear.

5-1 Checking or Changing Print Server Configuration

You can check or change the settings of the device under "Print server configuration" page on the print server homepage.

Checking the print server configuration

On the menu page of the print server homepage, click "Print server configuration." The "Print server configuration" page will appear.

	Printer information	
Manufacturer	CITIZEN	
Model	CT-5801	
	Network setting	
Line speed	Auto-detect	
<i>1</i> 01	TGP/IP settings	
MAC address	00-0D-AC-80-00-01	
IP address from DHCP	Enable	
IP address	169.254 1. 10	
Subnet mask	255 255 255 0	
Gateway IP address	0.0.0.0	
SNMP port number	161	
x	Print settings	
Print port number	9100	
Time-out duration for print data	180[Second]	
	Edit	iti

• P	rint	server	setting	items
-----	------	--------	---------	-------

Classification	ltems	Description	Change
Printer information	Manufacturer	Obtains information from the printer about the manufacturer of the printer to which the device is connected	NO
	Model	Obtains information from the printer about the model of the printer to which the device is connected	NO
Network setting	Line speed	Line speed Auto-detect (factory default) 10BaseT Half duplex 10BaseT Full duplex 100BaseTX Half duplex 100BaseTX Full duplex	YES
TCP/IP	MAC address	MAC address	NO
settings	IP address from DHCP	Setting to obtain IP address from DHCP server Enable: ON (factory default) Disable: OFF	YES
	IP address	Static IP address 169.254.1.10 (factory default)	YES
	Subnet mask	Subnet mask 255.255.255.0 (factory default)	Only when DHCP is disabled
	Gateway IP address	Gateway IP address 0.0.0.0 (factory default)	Only when DHCP is disabled
	SNMP port number	Port number used by SNMP agents	NO
Print settings	Print port number	Print port number used for TCP 9100 (factory default)	YES
	Time out duration for print data	Time out duration of connection to host machines (0 to 65535 seconds). "0" means no time out. 180 seconds (factory default) • We recommend setting the time out duration for at least 30 seconds.	YES

• Changing the print server configuration

- 1) On the menu page of the print server homepage, click "Print server configuration." The "Print server configuration" page will appear.
- 2) Click "Edit."

The editing page will appear.

arameters then click "Register".	
	Printer information
Manufacturer	OFTIZEN
Model	CT-6801
	Network setting
Line speed	
	TCP/IP settings
MAC address	00-0D-AC-80-00-01
IP address from DHCP	C Disable C Enable
IP address	169 254 1 10
Subnet mask	255 255 255 0
Gateway IP address	
SNMP port number	161
	Print settings
Print port number	9100
Time-out duration for print data	180 0-65535[Second]
	Pagistar

5 Using the Print Server Home Page

 After changing the settings, click "Register." The "Please wait" page will appear and the changes will be saved.

	Please	wait	
antipation to the second second	a at		
Print server will automat	ically restart.		
Back to menu			
	Copyright (C) 2010 CITIZEN SYSTEMS J	APAN CO.,LTD. All Rights reserved.	

CAUTION

When the operation is complete, the device will restart automatically. When the device is set to automatically obtain the IP address through the DHCP server, the IP address assigned may be different from the previous one.

5-2 Checking Operational Status of Printer

- On the menu page of the print server homepage, click "Printer status." The "Printer status" page will appear.
- 2) The operational status of the printer can be checked on "Printer status" of the "Printer status" page. The information is updated every five seconds.

CITIZEN SYSTEMS JAPAN CO., LTD.			
	Printer	rstatus	
	Manufacturer	CITIZEN	
	Printer model	CT-S801	
	Printer status	Ready	
	Time-out duration for print data	180 [Second]	
Back to menu			
Revision:	Copyright (C) 2010 CITIZEN SYSTEM	/IS JAPAN CO.,LTD. All Rights reserved.	

"Printer status" display items

Items	Description
Manufacturer	Information about the manufacturer of the printer to which the device is
	connected.
Model	Information about the model of the printer to which the device is connected.
Printer status	Operational status of the printer.
	Ready: Ready to print.
	Offline: Not ready to print.
	Paper Empty: Out of paper.
Time-out duration for print data	Timeout duration of connection to host machines.

5-3 Checking Print Server Version

The serial number and the firmware version of the device can be checked on the "LAN I/F information" page of the print server homepage.

Click the "LAN I/F information" on the menu page of the print server homepage to display the "LAN I/F information" page.

6 Print Server Configuration

6-1 Printing Print Server Configuration

Press the panel button to print out the print server configuration.

Configuration items that will be printed

- 1 Title of the printout.
- ② Firmware version of the device. Same as noted on the print server homepage.
- ③ Configuration programmed in the device. Same as noted on the print server homepage.
- ④ Network settings such as the IP address currently being used by the device. When the network is not connected, the IP address will be "0.0.0.0".
- (5) Displayed only when the DHCP server is enabled to obtain the IP address.



6-2 Restoring to Factory Default Settings

- 1) Press and hold the panel button to switch to setting mode.
- 2) When the device has switched to the setting mode, press and hold the panel button again within three seconds.

The following message will be printed, after which the device will return to factory default settings.

I/F Board Information --!Caution!--Print server will automatically restart.

CAUTION

When the operation is complete, the device will restart automatically. When the device is set to automatically obtain the IP address through the DHCP server, the IP address assigned may be different from the previous one.

7 Setting IP Address

The IP address that is used to connect the printer to the network can be automatically obtained by the DHCP server or It can be manually set. When it leaves the factory, the device is programmed to have the DHCP server automatically obtain the IP address. To change the IP address, enter it manually.

IP address when connecting to the network for the first time

After the printer is turned on, the device will automatically obtain the IP address from the DHCP server within 60 seconds. If the IP address cannot be obtained automatically, the static IP address (169.254.1.10, set in this device at the factory) will be applied.

Setting IP address manually

- 1) Using your Web browser, access the print server homepage. See 5, Using the Print Server Homepage (p.16) for how to access the homepage.
- 2) Open the "Print server configuration" page and click "Edit."
- 3) Click "Disable" for "IP address from DHCP" under "TCP/IP settings." The automatic obtaining of the IP address by the DHCP server will be disabled.
- 4) Enter the IP address in "IP address" under "TCP/IP settings."
- 5) Click "Register" to save the change.

Setting the IP address automatically

- 1) Using your Web browser, access the print server homepage. See 5, Using the Print Server Homepage (p.16) for how to access the homepage.
- 2) Open the "Print server configuration" page and click "Edit."
- Click "Enable" for "IP address from DHCP" under "TCP/IP settings". The automatic obtaining of the IP address by the DHCP server will be enabled.
- Click "Register" to save the change. The "Please wait" page will appear and the change will be saved.
- 5) Turn on the printer.

After the printer is turned on, the device will automatically obtain the IP address from the DHCP server within 60 seconds.

Checking the IP address

To check, print the settings information. See 6-1, Printing Print Server Configuration (p.22) for details.

Compatible printers	The CT-S801 series and the CT-S601 series, etc
Power supply	DC 5V ±5%
Power consumption	Approx. 1 W
Hardware	CPU: NXP LPC2458
	ROM: 512KB CPU internal flash
	RAM: 8MBytes SDRAM
Operation panel	LED: 4 (2 on panel, 2 on RJ45 connector)
	Button: 1 (on panel)
Network I/F	Auto-Negotiation (100Base-TX/10Base-T)
	Automatic distinguishing of straight/crossover cables (AUTO-MDIX)
Connection to the printer	Printer Class
	USB 2.0 FULL SPEED (however, currently CT-S801 side is USB 1.1)
IP Version	IPv4
Network protocols	TCP, UDP, HTTP, ICMP, DHCP
Port number for printing	TCP 9100 (initially)
Configuration changes	YES
from the print server	
homepage	
Interactive communication	YES (only when CITIZEN TCP/IP port driver is used)
Firmware upgrade	YES (use print server homepage)
External dimensions	80mm (W) \times 70mm (D) \times 25mm (H) (including protruding connector)
Weight	Approx. 75 g
Operating temperature and	0 to 40°C, 10 to 90%RH (condensation free)
humidity ranges	
Storage temperature and	-20 to 90°C, 10 to 91%RH (condensation free)
humidity ranges	
Safety standard	UL, C-UL, FCC Class A, TÜV-Bauart, CE Marking

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