

Industrial 2-/4-port RS232/422/485

Serial Device Server

ICS-2200T/ICS-2400T

Quick Installation Guide

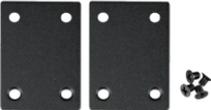
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1 Package Contents

Thank you for purchasing PLANET ICS-2200T and ICS-2400T Industrial Multi-port Serial Device Servers. **"Industrial Serial Server"** is used as an alternative name in this Quick Installation Guide.

Open the box of the Industrial Serial Server and carefully unpack it. The box should contain the following items:

<p>The Industrial Serial Server x 1</p> 	<p>Quick Installation Guide x 1</p> 
<p>Wall Mounting Kit x 1</p> 	<p>Dust Cap x 2</p> 

If any item is found missing or damaged, please contact your local reseller for replacement.

2. Requirements

The Industrial Serial Server provides remote login interface for management purposes. The following equipment is necessary for further management:

- Workstations running Windows XP/2003/Vista/7/8/2008/10, MAC OS X or later, Linux, UNIX, or other platforms are compatible with TCP/IP Protocols.
- Ethernet Port Connection
 - Workstations are installed with Ethernet NIC (Network Interface Card)
 - Network cables -- Use standard network (UTP) cables with RJ45 connectors.
 - The above PC is installed with Web browser



Note

It is recommended to use Internet Explorer 8.0 or above to access the Industrial Serial Server.

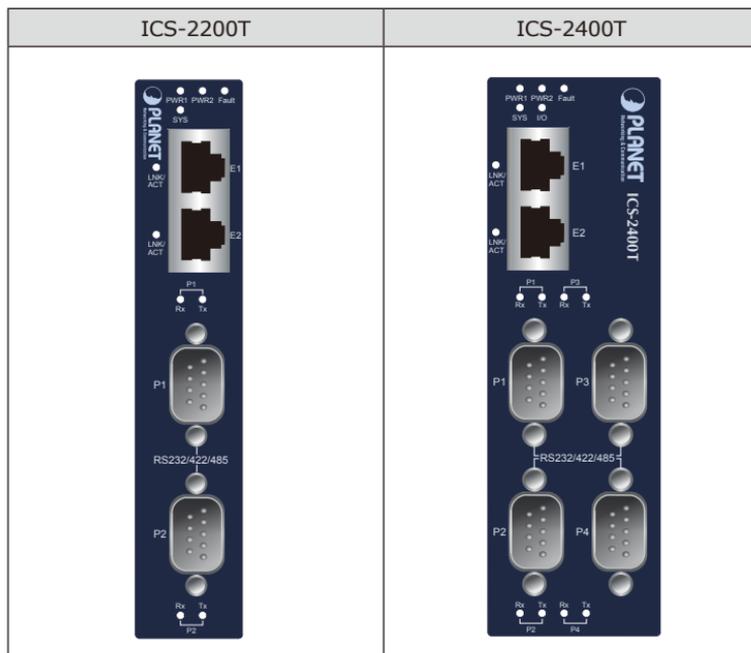


Note

If the Web interface of the Industrial Serial Server is not accessible, please turn off the anti-virus software or fire-wall and then try it again.

3. Hardware Introduction

3.1 Front Panel



3.2 Wiring the Power Inputs

The upper panel of the Industrial Serial Server indicates a DC inlet power socket and consists of one terminal block connector within 6 contacts. Please follow the steps below to insert the power wire.

1. Insert positive/negative DC power wires into **Contacts 1 and 2** for **Power 1**, or **Contacts 5 and 6** for **Power 2**. Figure 3-1 and 3-2 show PWR1 and PWR2 of the Industrial Serial Server.

■ ICS-2200T: 12~48V DC

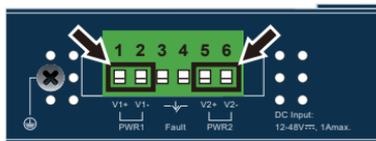


Figure 3-1: ICS-2200T Upper Panel

■ ICS-2400T: 12~48V DC

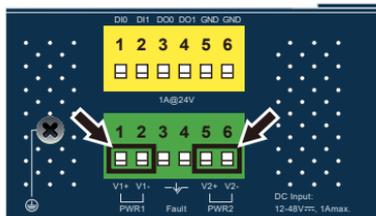


Figure 3-2: ICS-2400T Upper Panel

2. Tighten the wire-clamp screws for preventing the wires from loosening.

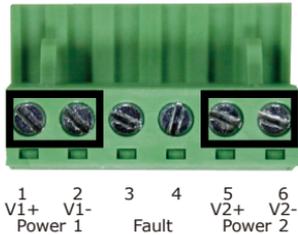


Figure 3-3: PWR1 & PWR2 pin of terminal block.



Note

The wire gauge for the terminal block should be in the range from 12 to 24 AWG.

3.3 Serial Port PIN Assignment

<i>Male DB9</i>	<i>Pin</i>	<i>RS232</i>	<i>RS422 RS485-4W</i>	<i>RS485-2W</i>
	1	DCD	TxD+	--
	2	RxD	TxD-	--
	3	TxD	RxD-	Data-
	4	DTR	RxD+	Data+
	5	GND	GND	GND
	6	DSR	--	--
	7	RTS	--	--
	8	CTS	--	--
	9	--	--	--

4 Web Login

4.1 Starting Web Management

The following shows how to start up the **Web Management** of the Industrial Serial Server. Note the Industrial Serial Server is configured through an Ethernet connection. Please make sure the manager PC must be set to the same **IP subnet address**.

For example, the default IP address of the Industrial Serial Server is **192.168.0.100**, then the manager PC should be set to **192.168.0.x** (where x is a number between 1 and 254, except 100), and the default subnet mask is 255.255.255.0.

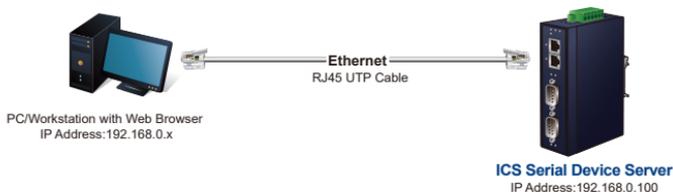


Figure 4-1: IP Management Diagram

4.2 Logging in to the Industrial Serial Server

1. Use Internet Explorer 8.0 or above for Web browser and enter IP address **<http://192.168.0.100>** (the factory-default IP address) to access the Web interface.
2. When the following dialog box appears, please enter the default user name "**admin**" and password "**admin**" (or the password you have changed before) as shown in Figure 4-2.

Default IP Address: **192.168.0.100**

Default User Name: **admin**

Default Password: **admin**

The screenshot shows the login interface for the Planet Industrial Server. At the top left is the Planet logo with the tagline "Powering Your Environment". Below the logo are two input fields: "User Name" and "Password". A "Login" button is positioned below the password field. The background of the interface is a blue gradient with a globe-like pattern.

Figure 4-2: Login Screen

3. After entering the password, the main screen appears as shown in Figure 4-3.

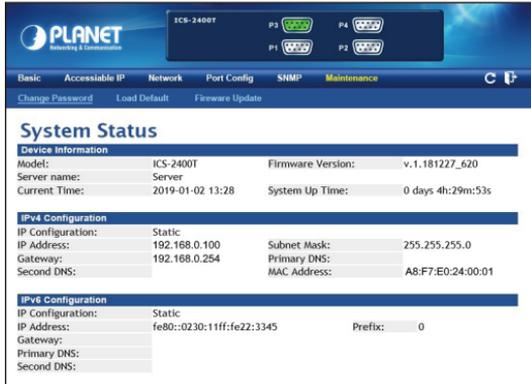


Figure 4-3: Web Main Screen of Industrial Serial Server

4. The Server Menu on the middle of the Web page lets you access all the functions and statuses the Industrial Serial Server provides.



Now, you can use the Web management interface to continue the Serial Server management. Please refer to the user manual for more.



Note

1. For security reason, **please change and memorize the new password after this first setup.**
2. Only accept command in lowercase letter under web interface.

5. Remote Console Telnet Login

5.1 Logging in to the Remote Console Interface

The Industrial Serial Server also supports Telnet for remote management. You can use Telnet to open a terminal session over one of the Ethernet ports. The Serial Server asks for user name and password for remote login when using Telnet; please use the following default IP address, username and password for the first-time login.

Default IP Address: **192.168.0.100**
Default Username: **admin**
Default Password: **admin**

You will be presented with a text menu displaying the Industrial Serial Server's general settings, which you will be able to view and modify. Please refer to User Manual for a description of the available settings.



```
Telnet 192.168.0.100
UserName: admin
Password: *****

-----
* Corporation      : PLANET
* Model           :
* MAC Address     : A8:F7:E0:22:00:01
* Firmware Version : v.1.181227_620
* Ethernet IP Address : 192.168.0.100
-----

Main Menu
-----
[1] Basic
[2] Accessible IP
[3] Network
[4] Serial
[5] SNMP
[6] Change password
[7] Load factory default
[s] Save and Restart
[q] Quit

Enter your choice:
```

6. Getting Started with VCOM Utility

With Industrial Serial Server's **VCOM** administration utility, you can easily install and configure one or multiple ICS-2200T or ICS-2400T device servers over the network from a remote location. There are several functions to configure Industrial Serial Server:

- Searching device
- Create virtual COM port
- Firmware upgrade
- Import or export file



6.1 Installation of VCOM Utility

The ICS-2200T/ICS-2400T VCOM Utility can be downloaded from PLANET Web site. Please locate and run the setup program "**vspsetup.exe**" and follow the on-screen instructions.



download link: <https://www.planet.com.tw/en/support/downloads?&method=keyword&keyword=ICS-2>

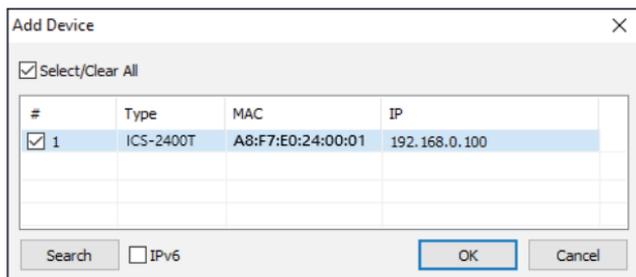
After installing, rebooting your workstation/PC is required.



If you have difficulty in downloading or executing VCOM Utility, turn off the firewall and anti-virus software first.

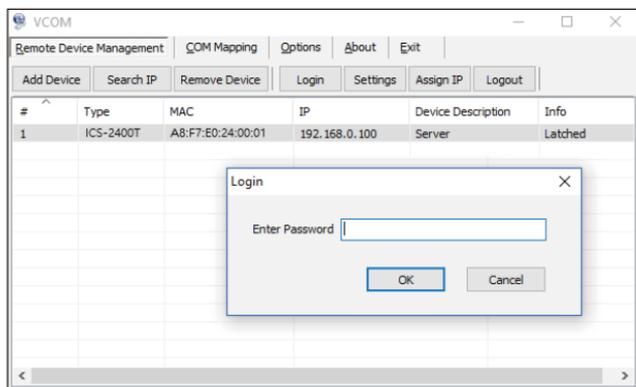
6.2 Searching Serial Device Server

First click **"Add Device"** and then click **"Search"** if Serial Server has access to network, as shown below.



6.3 Serial Server Login

The ICS-2200T/ICS-2400T Serial Server is password protected, so user can't modify any settings. The user must first log in the ICS-2200T/ICS-2400T if the password is correct; the status will become **"Logged in"**. On the contrary, if the password is incorrect, the status will pop up an error window.



6.4 Serial Server Setting

Click **"Settings"** to open the target Industrial Serial Server's configuration window.

The screenshot shows a 'Settings' dialog box with a close button (X) in the top right corner. The device information is displayed as follows:

Type:	ICS-2400T	Firmware Version:	v.1.181227_620
MAC:	A8:F7:E0:24:00:01		

Below the device information are five tabs: **Basic**, Network, Serial, SNMP, and Change Password. The 'Basic' tab is selected and contains the following settings:

Device Description	ICS-2400T
Time Zone	UTC+08:00
Local Date	1/27/2019
Local Time	2:29:01 PM
Time Server	time.stdtime.gov.tw

At the bottom of the 'Basic' tab, there are three checkboxes:

- Enable Web Console
- Enable Remote Console
- Enable Reset button protect

At the bottom right of the dialog box are two buttons: **OK** and **Cancel**.

Parameters are grouped into tables. Click **"OK"** to implement changes

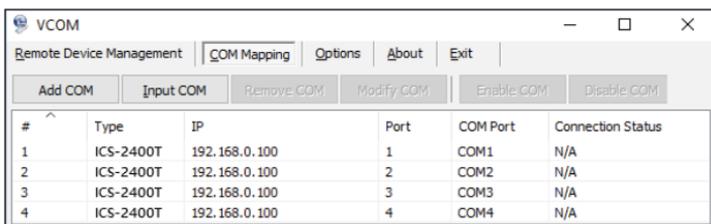
Please refer to user manual for a description of all functional properties for the Industrial Serial Server.

6.5 COM Port Mapping

While using the COM Mapping of VCOM Utility, the connection between the ICS-2200T/ICS-2400T and the PC device administrator will create the corresponding Virtual COM Port, which supports Microsoft Windows XP or above platform.

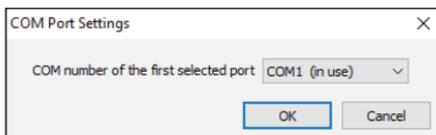
■ Add COM

If your Serial Server has been found, select it in order to add it to the COM mapping list. Click **"OK"** to take effect.



■ COM Mapping Settings.

Click **"Modify COM"** to configure Serial Server's serial COM port.



User can manually assign COM number to the ICS-2200T/ICS-2400T Serial Server. After that, user can click the **"OK"** button, and finally must press the **"OK"** button to take effect.

7. Recovering Back to Default Configuration

■ IP Address has been changed or admin password has been forgotten -

To reset the IP address to the default IP address “**192.168.0.100**” or reset the login username and password to default value, press the hardware-based reset button on the bottom panel for about 5 seconds. After the device is rebooted, you can log in the management Web interface within the same subnet of 192.168.0.xx and default password. Be noted that all the previous setups will be disappeared after the factory default reset is made.

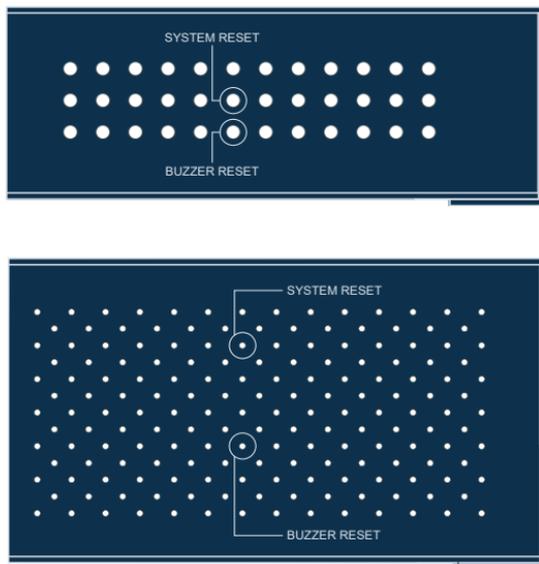


Figure7-1: ICS-2200T/ICS-2400T Hardware-based Reset Button

8. Customer Support

Thank you for purchasing PLANET products. You can browse our online FAQ resource on PLANET web site first to check if it could solve your issue. If you need more support information, please contact PLANET switch support team.

PLANET online FAQs:

<http://www.planet.com.tw/en/support/faq>

Switch support team mail address:

support@planet.com.tw

ICS-2200T/ICS-2400T User's Manual:

<https://www.planet.com.tw/en/support/download.php?method=keyword&keyword=ICS&view=3&page=1#list>



(Please select your Industrial Serial Server model from the Product Model drop-down menu)

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