

Industrial IoT Serial Device Server

ICS-3100T/ICS-3105AT/ICS-3200T/ICS-3400T

Quick Installation Guide

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1. Package Contents

Thank you for purchasing PLANET Industrial IoT Serial Device Server. The descriptions of this series are shown below:

ICS-3100T	IP30 Industrial 1-Port RS232/RS422/RS485 Serial Device Server
ICS-3105AT	IP30 Industrial 1-Port RS232/RS422/RS485 Serial Device Server with 1-Port 100FX SFP
ICS-3200T	IP30 Industrial 2-Port RS232/RS422/RS485 Serial Device Server
ICS-3400T	IP30 Industrial 4-Port RS232/RS422/RS485 Serial Device Server

“Industrial Serial Server” mentioned in this Quick Installation Guide refers to the above models.

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

Model Name Packaged Item	ICS-3100T	ICS-3105AT	ICS-3200T	ICS-3400T
The Industrial Serial Server	■	■	■	■
QR Code Sheet	■	■	■	■
CloudNMS Quick Guide	■	■	■	■
Wall-mounting Kit	■	■	■	■
RJ45 Dust Caps	1	-	2	2
SFP Dust Caps	-	1	-	-

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

2. Requirements

- The Industrial Serial Server provides local and remote login interface for management purposes. The following equipment is necessary for further management:
- Workstations running Windows 7/8/10/11, macOS 10.12 or later, Linux Kernel 2.6.18 or later, or other modern operating systems are compatible with TCP/IP Protocols.
- Workstations are installed with **Ethernet NIC** (Network Interface Card)
- **Ethernet Port Connection**
 - **Network cables:**
 - Use standard network (UTP) cables with RJ45 connectors.
 - Use Multi-mode or Single-mode fiber patch cord with LC connector and 100BASE-FX SFP transceiver (ICS-3105AT only).
 - The above PC is installed with Web browser.



It is recommended to use Google Chrome, Microsoft Edge or Firefox to access The Industrial Serial Server. If the Web interface of the Industrial Serial Server is not accessible, please turn off the anti-virus software or firewall and then try it again.

3. Hardware Introduction

3.1 Front Panels

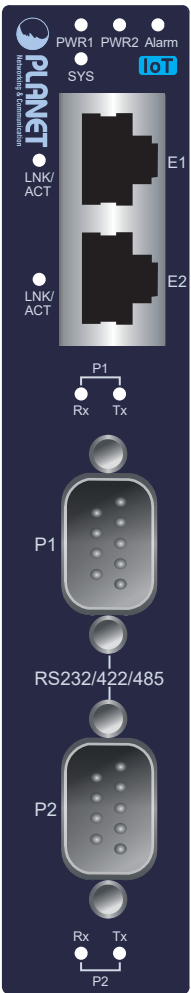
ICS-3100T



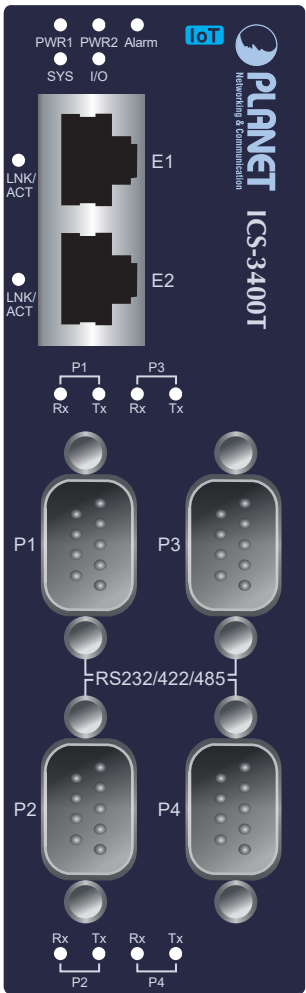
ICS-3105AT



ICS-3200T



ICS-3400T



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**. Figures 3-1 to 3-3 show PWR1 and PWR2 of the Industrial Serial Server.

■ ICS-3100T/ICS-3105AT: 9~48V DC or 24V AC

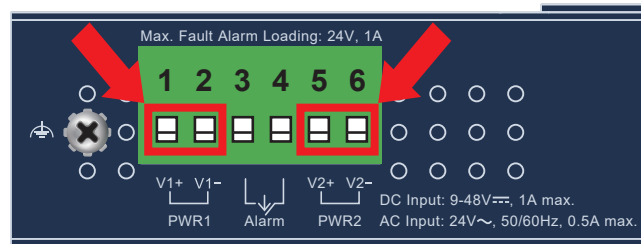


Figure 3-1: ICS-3100T/ICS-3105AT Upper Panel

■ ICS-3200T: 9~48V DC or 24V AC

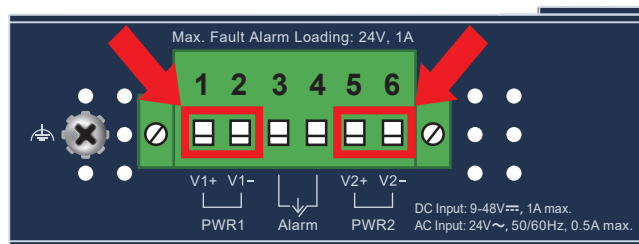


Figure 3-2: ICS-3200T Upper Panel

■ ICS-3400T: 9~48V DC or 24V AC

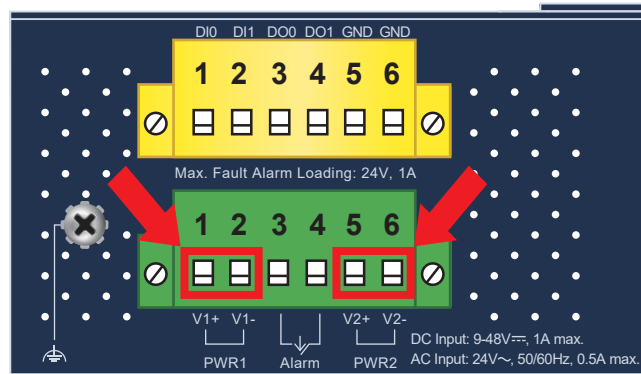


Figure 3-3: ICS-3400T Upper Panel

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

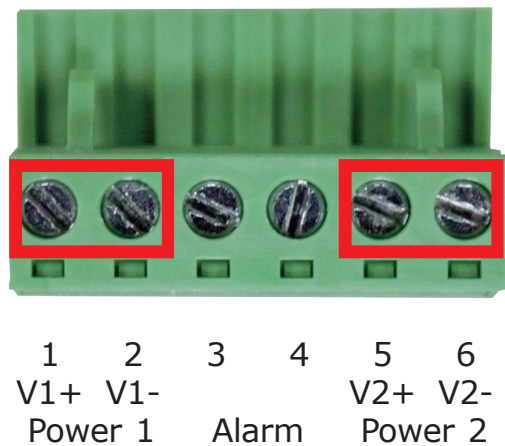


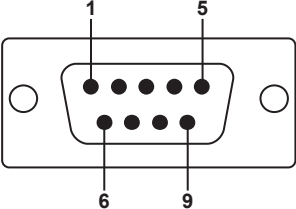
Figure 3-4: PWR1 & PWR2 Pins of Terminal Block



Note

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

3.3 Serial Port PIN Assignment

Male DB9	Pin	RS232	RS422 RS485-4W	RS485-2W
	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	--	--	--

3.4 4-pin Terminal Block PIN Assignment

Terminal Block	Pin	RS422 RS485-4W	RS485-2W
1 2 3 4	1	TxD+ (A)	--
	2	TxD- (B)	--
	3	RxD- (B)	Data- (B)
	4	RxD+ (A)	Data+ (A)

4. 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 1), and the default subnet mask is 255.255.255.0.

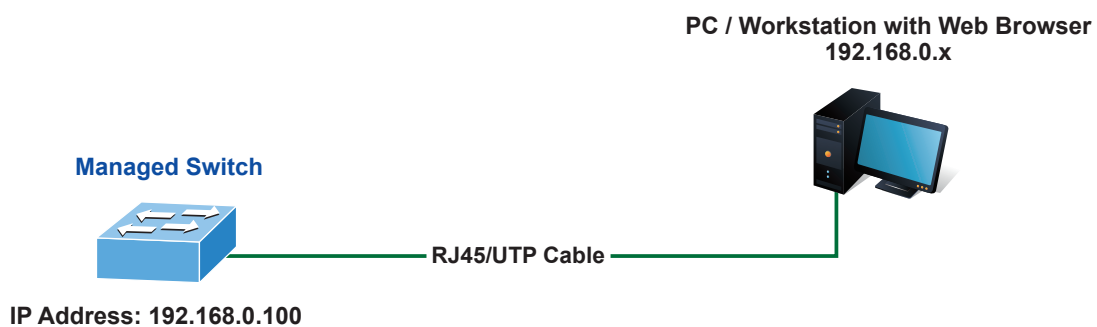


Figure 4-1: IP Management Diagram

4.1 Logging in to The Industrial Serial Server

1. When the following dialog box appears, please enter the default user name **"admin"** and password. Refer to **Section 4.1** to determine your initial login password.

Default IP Address: **192.168.0.100**

Default User Name: **admin**

Default Password: **cs + the last 6 characters of the MAC ID in lowercase**

2. Find the MAC ID on your device label. The default password is **"cs"** followed by the last six lowercase characters of the MAC ID.

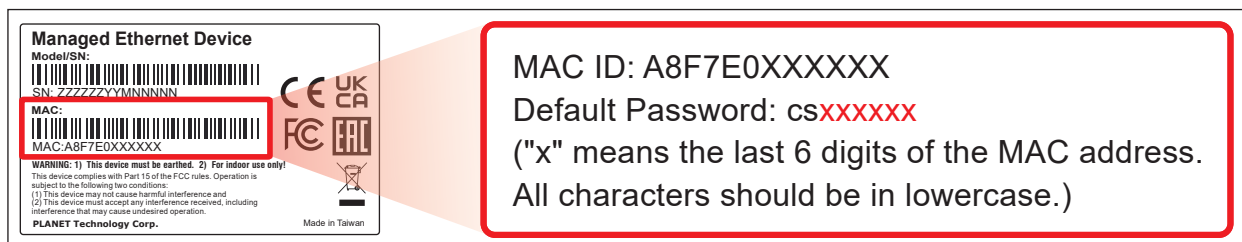


Figure 4-2: Industrial Serial Server MAC ID Label



User

Password

Login

Figure 4-3: Login Screen

- After logging in, you will be prompted to change the initial password to a permanent one.

Change Password

New Password

This field is required.

Confirm Password

This field is required.

The password must contain 8~31 characters, including upper case, lower case, numerals and other symbols. Please note, spaces (blanks) are not accepted.

Apply

Figure 4-4: Create a New Password



P3

P4

P1

P2

[Basic](#)
[Accessible IP](#)
[Network](#)
[Serial Port Config](#)
[MQTT Config](#)
[MQTT Broker](#)
[SNMP](#)
[Maintenance](#)

System Status

Device Information

Model:	ICS-3400T	Firmware Version:	v1.2203b260723
Server name:	ICS-3400T		
Current Time:	2026-01-01 Thursday 00:05:13	System Up Time:	0 day, 00:05:30

IPv4 Configuration

IP Configuration:	static		
IP Address:	192.168.0.100	Subnet Mask:	255.255.255.0
Gateway:	192.168.0.254	Primary DNS:	8.8.8.8
Second DNS:	8.8.4.4	MAC Address:	a8:f7:e0:17:34:05

IPv6 Configuration

IP Configuration:	Disable	Prefix:	
IP Address:			
Gateway:			
Primary DNS:			
Second DNS:			

Figure 4-5: Web Main Screen of Gateway

The Industrial Serial Server Menu on the top of the Web page lets you access all the commands and statistics The Industrial Serial Server provides. The Switch Menu always contains one or more buttons, such as **“Basic”**, **“Accessible IP”**, **“Serial Port Config”**, **“MQTT Config”** **“MQTT Broker”** **“SNMP”** and **“Maintenance”**.

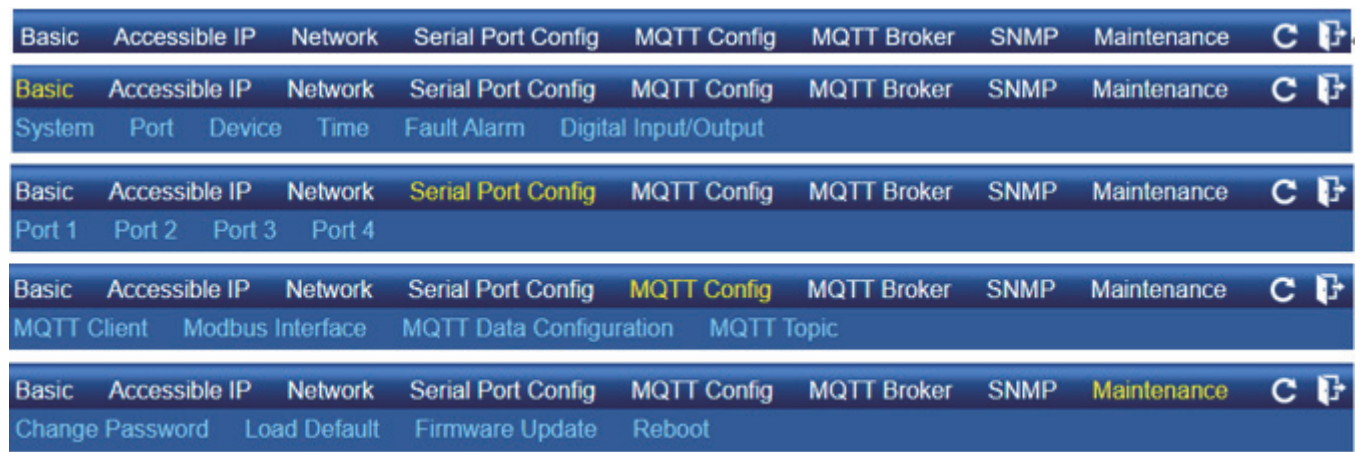


Figure 4-6: Industrial Serial Server Menu

Now, you can use the Web management interface to continue the Switch management. Please refer to the user’s manual for more.

5. Getting Started with VCOM Utility

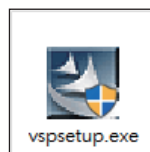
With Industrial Serial Server's **VCOM** administration utility, you can easily install and configure one or multiple ICS serial device servers over the network from a remote location. There are several functions to configure Industrial Serial Server:

- Searching device
- Creating virtual COM port
- Firmware upgrade
- Importing or exporting file



5.1 Installation of VCOM Utility

The ICS serial 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&view=6#list>

After installing, rebooting your workstation/PC is required.

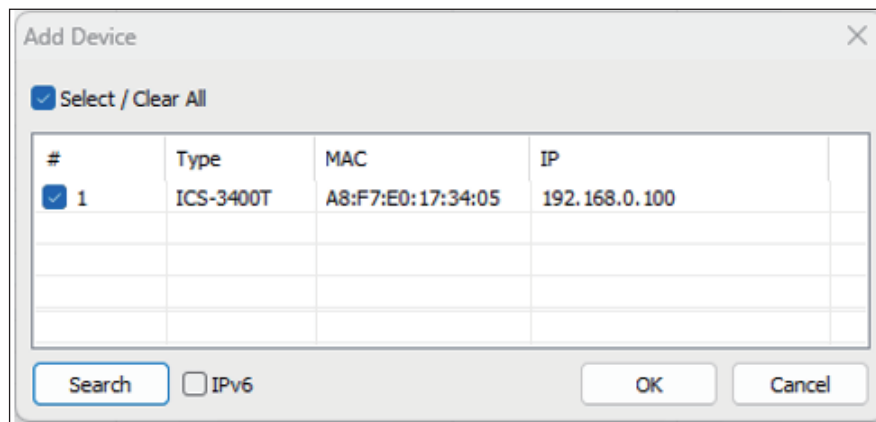


Note

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

5.2 Searching Serial Device Server

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

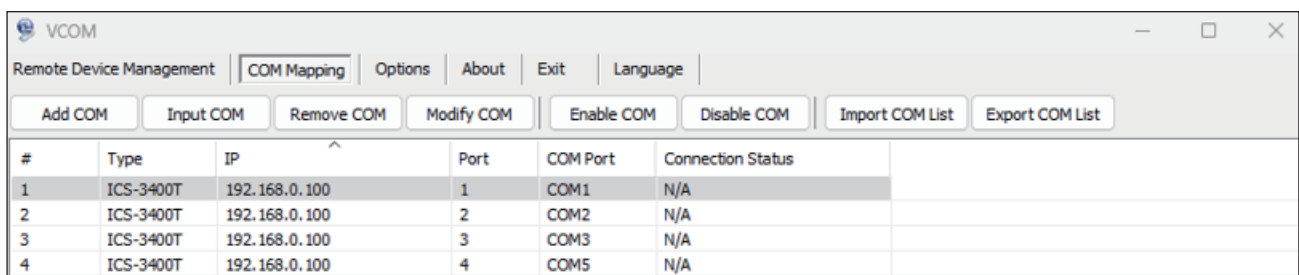


5.3 COM Port Mapping

With VCOM utility, COM port mapping is a way to define a physical interface in the device server by creating a virtual interface in the computer. VCOM utility supports Microsoft Windows XP, and other platforms.

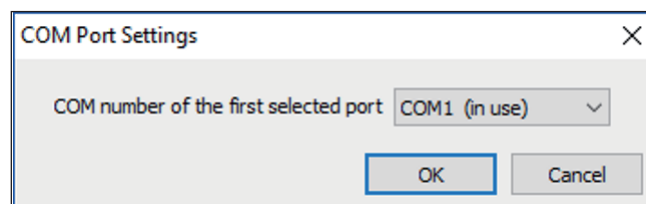
■ Adding COM

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 Serial Server. After that, user can click the **"OK"** button, and finally press the **"OK"** button to take effect.

6. Recovering Back to Default Configuration

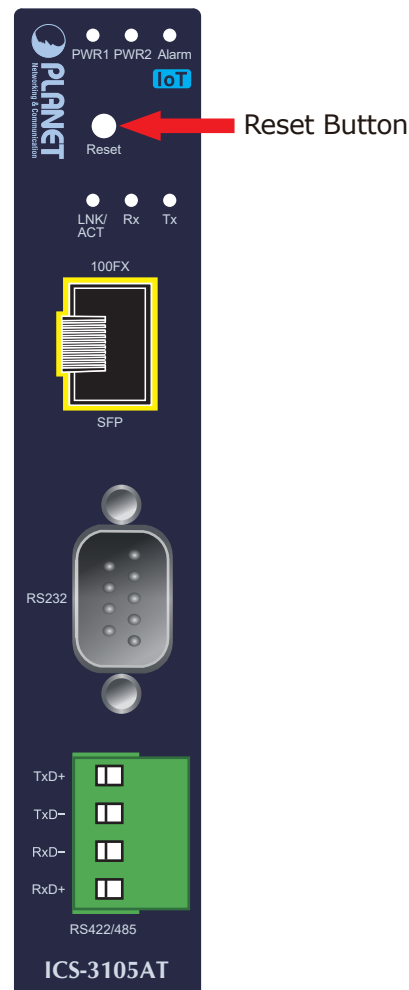
■ IP address has been changed or admin password has been forgotten -

To reset the IP address to the default IP Address **"192.168.0.100"** and the user name password to factory default mode (default password is admin or cs + the last 6 characters of the MAC ID in lowercase), press the hardware-based **reset button** on the front 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.

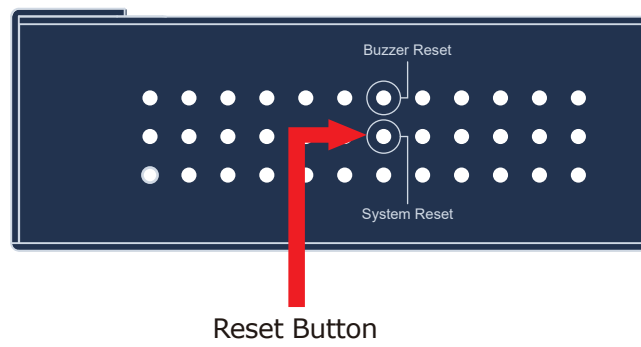
ICS-3100T



ICS-3105AT



ICS-3200T



ICS-3400T

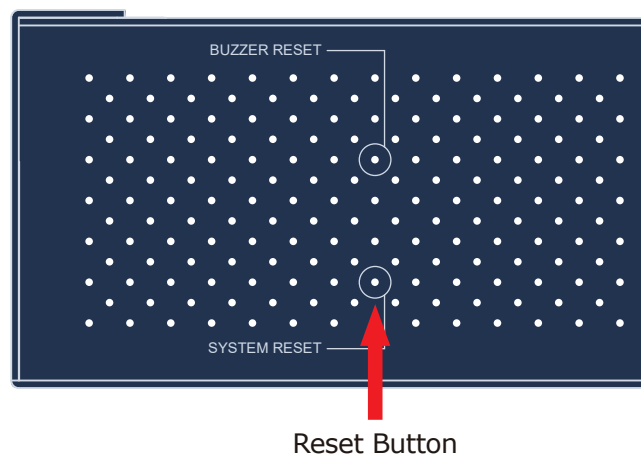


Figure 6-1: Reset Button

7. Customer Support

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

PLANET online FAQs:

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

Support team mail address:

support@planet.com.tw

ICS-3X00T User's Manual:

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



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

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