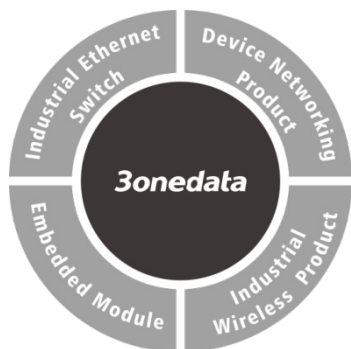


## ICS5400PTP-12GT12GS4XS Series PTP Layer 3 Industrial Ethernet Switch Quick Installation Guide



**3onedata Co., Ltd.**

Address: 3/B, Zone 1, Baiwangxin High Technology  
Industrial Park, Xili, Nanshan District,  
Shenzhen

Website: [www.3onedata.com](http://www.3onedata.com)

Tel: +86 0755-26702688

Fax: +86 0755-26703485

### 【Package Checklist】

Please check the integrity of package and accessories while first using the switch.

1. Industrial Ethernet switch
2. Mounting lug ×2
3. Power line ×2 (only for AC device )
4. Certification
5. Warranty card

If any of these items are damaged or lost, please contact our company or dealers, we will solve it ASAP.

### 【Product Overview】

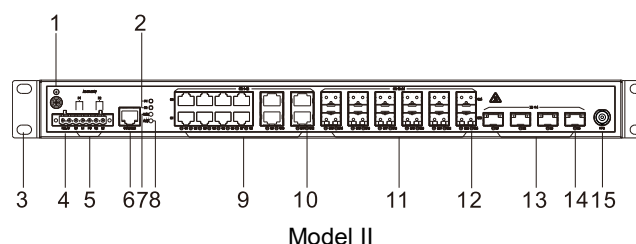
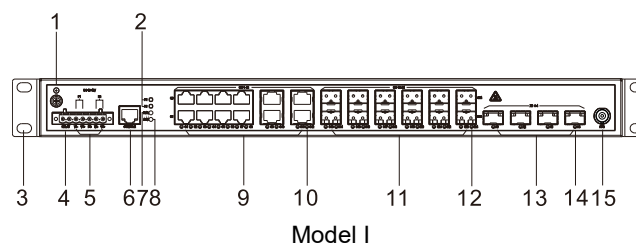
This series are PTP layer 3 industrial Ethernet switches. The models are:

Model I. ICS5400PTP-12GT12GS4XS-2LV (12 Gigabit Ethernet ports + 12 Gigabit Ethernet SFP fiber ports + 4 10Gigabit Ethernet SFP+ fiber ports + 12~48VDC dual power input).

Model II. ICS5400PTP-12GT12GS4XS-2HV (12 Gigabit Ethernet ports + 12 Gigabit Ethernet SFP fiber ports + 4 10Gigabit Ethernet SFP+ fiber ports + 90~264VAC dual power input).

### 【Panel Design】

#### ➤ Front panel

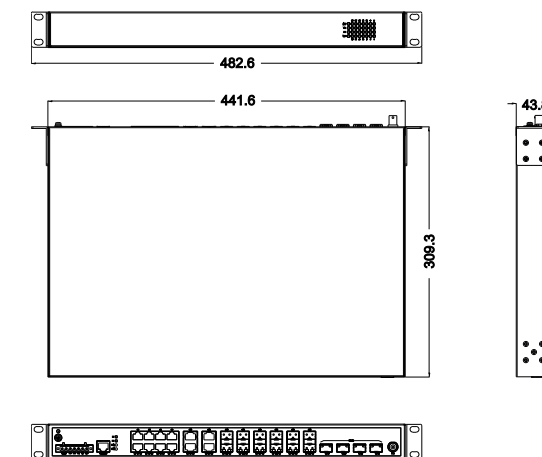


1. Grounding screw
2. Power indicator (P1/P2)
3. Lugs
4. Relay input terminal (RELAY, reserved)
5. Power supply input (P1/P2)
6. Console port
7. Device running state indicator (RUN)
8. Alarm indicator (ALM)
9. Gigabit Ethernet copper port (G1-G12)
10. Gigabit Ethernet copper port indicator (G1-G12)
11. Gigabit SFP interface (G13-G24)
12. Gigabit SFP interface indicator (G13-G24)
13. 10Gigabit SFP+ interface (X1-X4)
14. 10Gigabit SFP+ interface indicator (X1-X4)
15. PPS Interface

12. Gigabit SFP interface indicator (G13-G24)
13. 10Gigabit SFP+ interface (X1-X4)
14. 10Gigabit SFP+ interface indicator (X1-X4)
15. PPS Interface

### 【Mounting Dimension】

Unit: mm



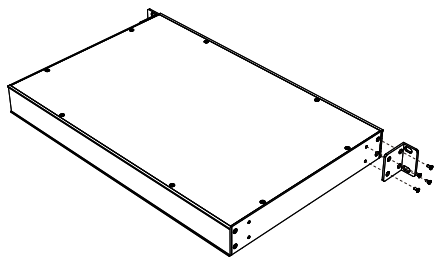
#### Notice Before Mounting:

- Don't place or install the device in area near water or moisture, keep the relative humidity of the device surrounding between 5%~95% without condensation.
- Before powering on the device, check the power specifications supported by the device to prevent device damage due to overvoltage.
- The device surface temperature is high after running; please don't directly contact to avoid scalding.

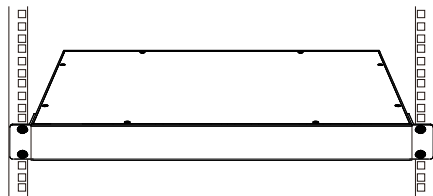
### 【Rack-mounting】

This product adopts rack-mounting, mounting steps as below:

- Step 1 Select the device mounting location to ensure enough size.
- Step 2 Adopt 4 bolts to install the mounting lugs in the device position as figure below.



Step 3 Place the device in the rack; adopt 4 bolts to fix two sides mounting lugs in the rack.



Step 4 Check and confirm the product is mounted firmly on the rack, then mounting ends.

### 【Disassembling Device】

- Step 1 Power off the device.
- Step 2 Adopt screw driver to loosen the 4 bolts fixed on the mounting lugs in the rack.
- Step 3 Shift out the device from rack, disassembling ends.

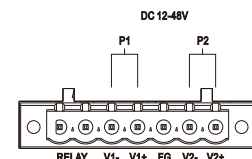


### Notice Before Powering on:

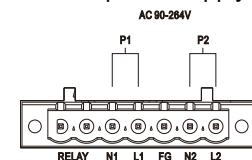
- Power ON operation: First insert the power supply terminal block into the device power supply interface, and then plug the power supply plug and power on.
- Power OFF operation: First, remove the power plug, then remove the wiring section of terminal block. Please pay attention to the above operation sequence.
- Please be aware of the power input range supported by the device before powering on. Use the recommended voltage of the device to avoid device damage.

### 【Power Supply Connection】

- DC power supply
- Model I supports 2 12~48VDC power inputs, and adopts

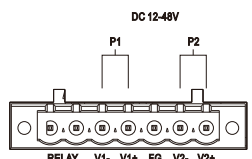


#### ➤ AC power supply



pins.

### 【Relay Connection】



This series supports 1 relay alarm information output, and adopts 7-pin 5.08mm pitch terminal blocks, relay occupies the left 2 pins. The relay can externally connect to alarm lights or alarm buzzer or other switching value collecting device in order to timely notify operators when the alarm occurs.

Device status	Relay Contacts	Alarm
Not powered on, or the power is disconnected	Closed	Yes
Powered on, but not working properly	Closed	Yes
Powered on, and working properly without triggering any alarm	Disconnected	No
Powered on, and working properly, but it triggered alarms	Close	Yes

### 【Console Port Connection】

The device provides 1 program debugging port based on RS-232 serial port which can conduct device CLI command management after connecting to PC. The interface adopts RJ45 port, the RJ45 pin definitions are as follows:

Pin No.	2	3	5
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7-pin 5.08mm pitch terminals, and the power supply occupies the right 5 pins. This power supply supports anti-reverse connection.

Model II supports 2 90~264VAC power inputs, and adopts 7-pin 5.08mm pitch terminals, and the power supply occupies the right 5

Definition	TXD	RXD	GND
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### 【Checking LED Indicator】

The series products provide LED indicators to monitor the device working status with a comprehensive simplified troubleshooting; the function of each LED is described in the table as below:

LED	Indicate	Description
P1	ON	PWR is connected and running normally
	OFF	Power supply is disconnected or running abnormally
P2	ON	PWR is connected and running normally
	OFF	Power supply is disconnected or running abnormally
RUN	Blinking	The system is running normally
	OFF	The system is not running or running abnormally
	ON	System is running abnormally
ALM	ON	Power supply or port link has alarm
	OFF	Power supply, port link without alarm
Link (G1-G24, X1-X4)	ON	Port has established valid network connection
	Blinking	Port is in a network communication status
	OFF	Port hasn't established valid network connection.


### 【Logging in to WEB Interface】

This device supports WEB management and configuration. Computer can access the device via Ethernet interface. The way of logging in to device's configuration interface via IE browser is shown as below:

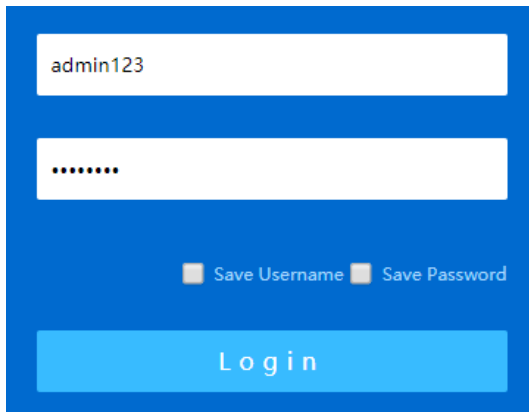
- Step 1 Configure the IP addresses of computer and the device to the same network segment, and the

network between them can be mutually accessed

Step 2 Enter device's IP address in the address bar of the computer browser.

 <http://192.168.1.254/>

Step 3 Enter device's username and password in the login window as shown below.



The screenshot shows a login window with a blue background. It has two input fields: the first contains 'admin123' and the second contains seven dots. Below the fields are two checkboxes labeled 'Save Username' and 'Save Password'. At the bottom is a large blue button labeled 'Login'.

Step 4 Click "Login" button to login to the WEB interface of the device.



#### Note:

- The default IP address of the device is "192.168.1.254".
- The default user name of the device is "admin123", no password.
- If the user name or password is lost, user can restore it to factory settings via restoring factory setting button or management software; all modified configurations will be cleared after restoring to factory settings, so please backup configuration file in advance.
- Please refer to user manual for specific configuration method of logging in to WEB interface and other configurations about network management function.

### 【Specification】

Panel	
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Gigabit copper port	10/100/1000Base-T(X) self-adapting RJ45 port, half/full duplex self-adaption or forced working mode, support MDI/ MDI-X self-adaption
Gigabit SFP	1000Base-X SFP slot
10GbE interface	10GbE SFP+ port (10Gigabit / Gigabit self-adaption)
Console port	CLI command management port (RS-232), RJ45
Alarm interface (reserved)	7-pin 5.08mm pitch terminal blocks, relay occupies 2 pins on the left, support 2 relay alarm information outputs
PPS	Support 1 PPS signal input, adopting BNC interface to connect an external time source
Indicator	Power indicator, system alarm indicator, device running status indicator, interface connection/running status indicator
<b>Switch Property</b>	
Backplane bandwidth	128G
Packet buffer size	32Mbit
MAC address table	32K
<b>Power Supply</b>	
Input power supply	Model I: 12~48VDC, dual power supply, anti-reverse connection Model II: 90~264VAC, dual power supply
Access terminal block	Support 7-pin 5.08mm pitch terminal blocks (power supply occupies 5 pins on the right)
<b>Power Consumption</b>	

No-load	18.24W@48VDC
Full-load	33.1W@48VDC
<b>Working Environment</b>	
Working temperature	-40~60℃
Storage temperature	-40~85℃
Working humidity	5%~95% (no condensation)
Protection grade	IP40 (metal shell)

### 【Disposal of Waste Electrical and Electronic Equipment (WEEE 2012/19/EU)】

(Applicable in the EU-member states)



The crossed-out wheeled bin symbol on the equipment or its packaging indicates that the product, at the end of its service life, shall not be mixed with unsorted municipal waste but should be collected separately, in accordance with local laws

and regulations.

A proper separate collection of end-of-life equipment for the subsequent recycling, treatment and environmentally compatible disposal, will help prevent potential damage to the environment and human health, facilitating the reuse, recycling and/or recovery of its component materials.

Private users should contact their vendor or municipal waste management service and ask for disposal information.

Professional users should contact their suppliers and check the terms of their selling agreement.

This product must not be disposed of with other commercial waste.

Users' cooperation in the correct disposal of this product will contribute to saving valuable resources and protecting the environment.