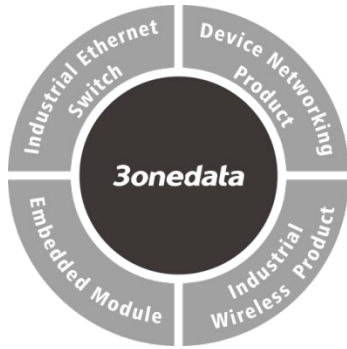


ICS5400PTP-12GT12GS4XS PTP Layer 3 Industrial Ethernet Switch Quick Installation Guide



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【Package Checklist】

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

1. Industrial Ethernet switch
2. Warranty card
3. Certification

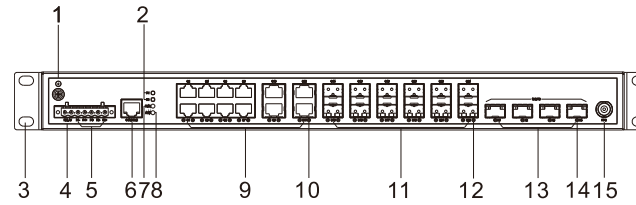
If any of these items are damaged or lost, please contact our company or dealers, we will solve it ASAP.

【Product Overview】

This product is a PTP layer 3 industrial Ethernet switch, and its model is: ICS5400PTP-12GT12GS4XS (12 Gigabit Ethernet ports + 12 Gigabit Ethernet SFP fiber ports + 4 10Gigabit Ethernet SFP+ fiber ports, 12~48VDC dual power input).

【Panel Design】

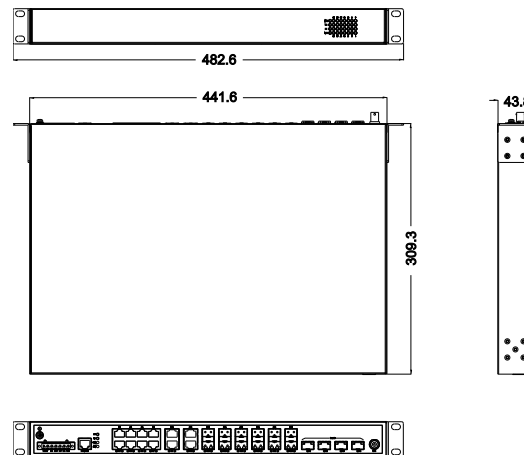
➤ Front panel



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

【Mounting Dimension】

Unit: mm



Notice Before Mounting:

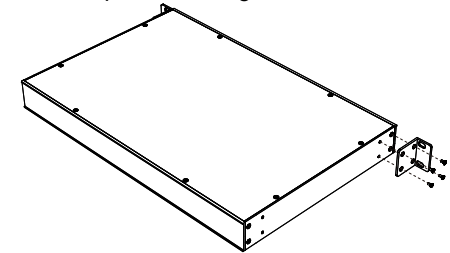
- Don't place or install the device in area near water or moist, keep the relative humidity of the device surrounding between 5%~95% without condensation.
- Before power on, first confirm the supported power supply specification to avoid over-voltage damaging the device.
- The device surface temperature is high after running; please don't directly contact to avoid scalding.

【Rack-mounted】

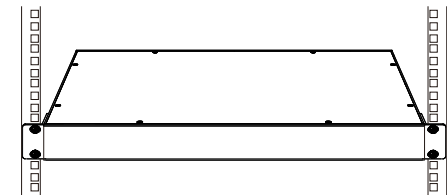
This product adopts rack-mounting, mounting steps as below:

Step 1 Select the device mounting position and ensure enough mounting size is reserved.

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, 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.

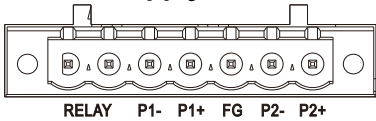
Step 3 Shift out the device from rack, disassembling ends.



Notice before power on:

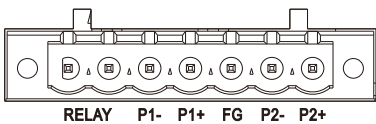
- Power ON operation: First insert the power supply terminal block into the device power supply interface, then plug the power supply plug contact and power on.
- Power OFF operation: First, remove the power plug, then remove the wiring section of terminal block. Please pay attention to the above operation 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】



The device supports 2 12~48VDC power inputs (compatible with 90~264VAC), and adopts 7-pin 5.08mm pitch terminals, and the power supply occupies the right 5 pins. This power supply supports anti-reverse connection.

【Relay Connection】



The device supports 1 relay alarm information output, using 7-pin 5.08mm pitch terminal blocks, and the relay occupies 2 bits on the left. They are open circuit in normal non alarm state, closed when any alarm information occurs. 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.



Note:

Relay terminals are reserved and not open yet.

【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 definition is as follows:

Pin No.	2	3	5
Pin Definition	TXD	RXD	GND

【Checking LED Indicator】

The series product provides 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	Power supply 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	The 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

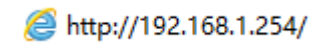
LED	Indicate	Description
	OFF	Port hasn't established valid network connection.

【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.



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



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 "admin", 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	
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	100/1000Base-X self-adaptive 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 output
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
Switch Property	
Backplane bandwidth	128G
Packet buffer size	32Mbit
MAC Address Table	32K

Power Supply	
Input power supply	12~48VDC (compatible with 90~264VAC), dual power supply
Access terminal block	7-pin 5.08mm pitch terminal blocks (power supply occupies 5 pins on the right)
Power Consumption	
No-load	Normal temperature: 28.2W@48VDC High temperature: 34.0W@48VDC
Full-load	Normal temperature: 33.1W@48VDC High temperature: 38.5W@48VDC
Working Environment	
Working temperature	-40~60°C
Storage temperature	-40~85°C
Working humidity	5%~95% (no condensation)
Protection grade	IP40 (metal shell)