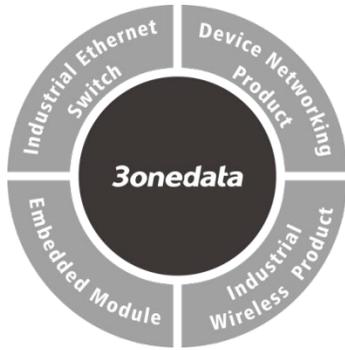


ICS5400PTP-12GT12GS4XS PTP Layer 3 Industrial Ethernet Switch Quick Installation Guide



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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

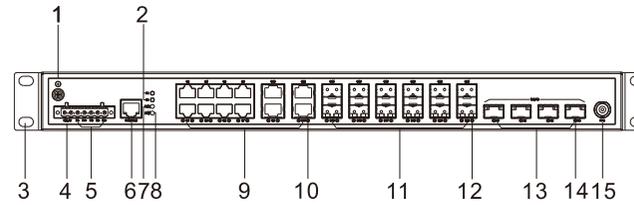
If any of these items are damaged or lost, please contact our company or dealers, we will solve it ASAP.

【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】

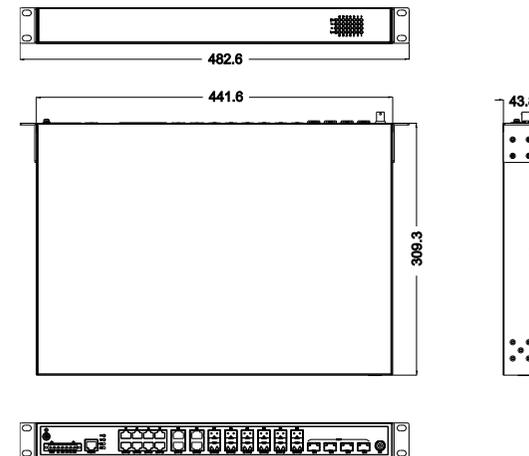
➤ Front panel



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:

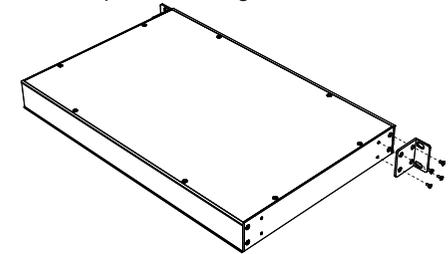
- Don't place or install the device in area near water or moist, keep the relative humidity of the device surrounding between 5%~95% without condensation.
- Before power on, first confirm the supported power supply specification to avoid over-voltage damaging the device.
- The device surface temperature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

【Rack-mounted】

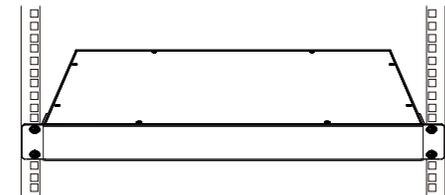
This product adopts rack-mounting, mounting steps as below:

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.

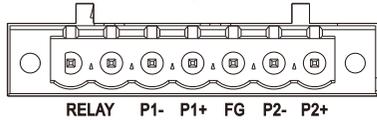
Step 3 Shift out the device from rack, disassembling ends.



Notice before power on:

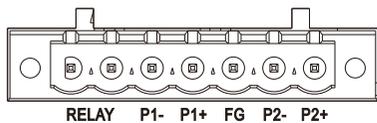
- Power ON operation: First insert the power supply terminal block into the device power supply interface, then plug the power supply plug contact and power on.
- Power OFF operation: First, remove the power plug, then remove the wiring section of terminal block. Please pay attention to the above operation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

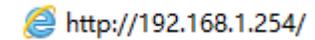
| LED | Indicate | Description |
|-----|----------|---|
| | OFF | Port hasn't established valid network connection. |

【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) |