IES6200-PN-16T4GS-2P48 Managed PROFINET Industrial Ethernet Switch Quick Installation Guide

【Package Checklist】

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

1 Industrial Ethernet switch
2. DIN-Rail mounting attachment
3. Certification
4. Warranty card

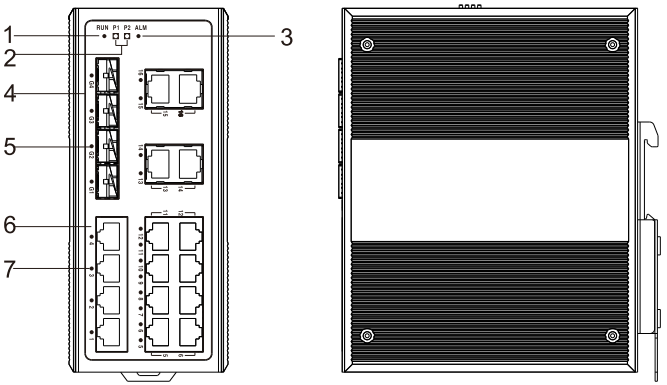
If any of these items are damaged or lost, please contact our company or dealers, we will solve it ASAP.

【Product Overview】

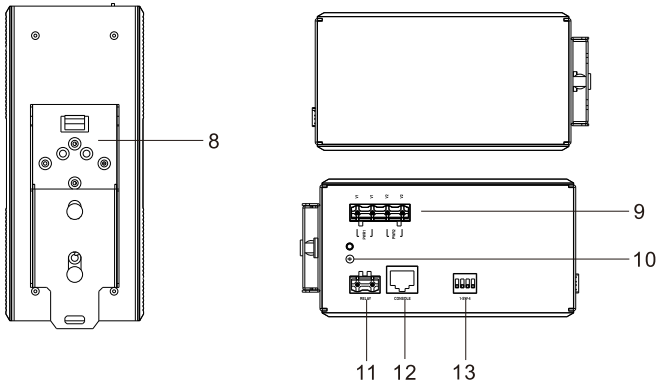
This product is 20-port 100M/Gigabit managed DIN-Rail PROFINET industrial Ethernet switch. The model: IES6200-PN-16T4GS-2P48-N (4 Gigabit SFP fiber ports + 16 100M copper ports + 2 12~48VDC power supplies).

【Panel Design】

➢ **Front view and right view**



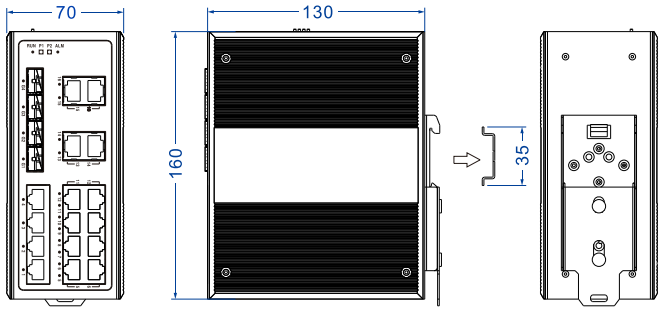
➢ **Rear view, Bottom view and Top view**



1. Device running status indicator RUN
2. Power supply indicator P1/P2
3. Relay alarm status indicator ALM
4. Gigabit fiber port (SFP slot)
5. Gigabit fiber port indicator
6. 100M copper port
7. 100M copper port indicator
8. DIN-Rail mounting kit
9. Power input terminal (PWR1, PWR2)
10. Grounding screw (Protective grounding)
11. Relay alarm output terminal block (2 pins)
12. Console port
13. DIP switch

【Mounting Dimension】

Unit: mm

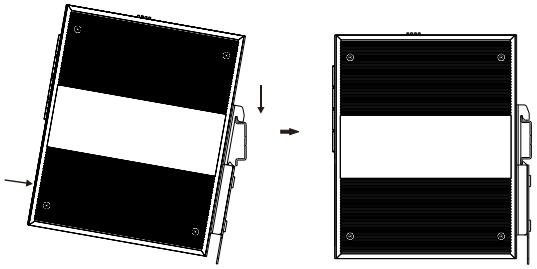


Notice Before Mounting:

- 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.

【DIN-Rail Mounting】

The product adopts 35mm standard DIN-Rail mounting which is suitable for most industrial scenes, mounting steps as follows:



Step 1 Check if the DIN-Rail mounting kit is installed firmly.

Step 2 Clip the upper part of the DIN-Rail mounting kit, i.e. the fixed side, into the DIN rail.

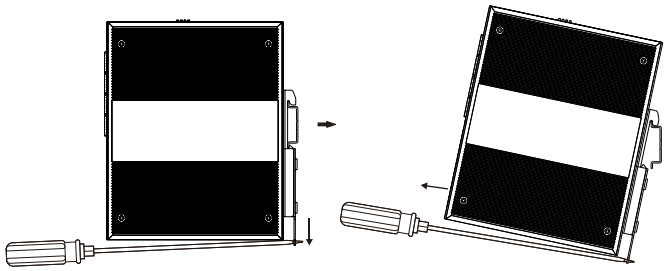
Step 3 Press the lower side of the device and insert the lower part of DIN-Rail mounting kit (the side with spring support) into DIN-Rail.

Tips:

The DIN-Rail spring support is a metal sheet that can move up and down, and there will be a sound after it is clamped in.

Step 4 Check and confirm the product is firmly installed on DIN-Rail, then mounting ends.

【Disassembling DIN-Rail】



Step 1 Power off the device.

Step 2 Use a slot type screwdriver or other tools to move the DIN rail spring support downward; At the same time, move the lower side of the device outward and move out the lower part of the DIN rail mounting kit.

Step 3 Lift the device upward slightly, move out the upper part of DIN-Rail mounting kit. 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.

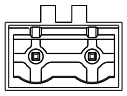
【Power Supply Connection】

➢ **DC power supply**

The device provides 4 pins power supply input terminal blocks and supports two independent DC power supply systems, PWR1 and PWR2, which supports non-polarity and anti-reverse connection function, that the device can work normally after reverse connection.

Voltage range: 12~48VDC.

【Relay Connection】



RELAY

Relay terminals are a set of normally open contacts of the device alarm relay. They are open circuit in the state of normal non alarm, closed when any alarm information occurs. For example, they are closed when powered off, and send out alarm. The product supports 1 relay alarm information output that can output DC power supply alarm information or network abnormality alarm. It can be connected to alarm light or alarm buzzer or other switching value collecting devices, which can timely inform operators when the alarm occurs.

【DIP Switch Settings】

Provide 4-pin DIP switch for function setting, "ON" is enable valid terminal. The definitions of DIP switch are as follows:

DIP	Definition	Operation
2	Restore Factory Settings	Set the DIP switch to ON, the device will root automatically and restore to factory settings, then turn off the DIP switch.
1, 3, 4	Reserved	

【Console Port Connection】

The device provides 1 program debugging port based on RS232 serial port which can conduct device CLI command management after connecting to PC. The interface adopts RJ45 port, the RJ45 pin definition as follows:

Pin No.	2	3	5
Definition	TXD	RXD	GND

【Checking LED Indicator】

The device provides LED indicators to monitor its operating status, which has simplified the overall troubleshooting process. The function of each LED is described in the table below:

LED	Indicate	Description
P1	ON	Power P1 is connected and running normally
	OFF	Power P1 is disconnected or running abnormally
P2	ON	Power P2 is connected and running normally
	OFF	Power P2 is disconnected or running abnormally
ALM	ON	Power supply or the port link is alarming.
	OFF	Power supply, port link without alarm
RUN	ON/OFF	The device is running abnormally
	Blinking	Blinking 1 time per second, the device is running normally.
1-16, G1-G4	ON	Ethernet port has established a valid network connection
	Blinking	Ethernet port is in an active network status
	OFF	Ethernet port has not established valid network connection

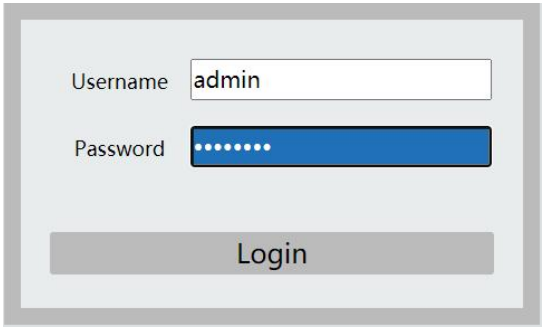
【Logging in to WEB Interface】

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 device has no IP address by default, so you can search and configure the IP address of the device through PROFINET configuration software such as STEP 7 and TIA Portal. Or use the command line to configure the IP address of the device through the CONSOLE port. If the IP address of the device is configured to 192.168.1.254, the command line operation is as follows:
  User: admin
  Password: admin
  Switch> enable
  Switch# configure terminal
  Switch(config)# ip address 192.168.1.254/24
- The default user name and password of the device are “admin”.
- If the username or password is lost, user can restore it to factory settings via device DIP switch 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 SFP	1000Base- X, SFP slot
100M copper port	10/100Base-T(X), RJ45, Automatic Flow Control, Full/half Duplex Mode, MDI/MDI-X Autotunning
Console port	CLI command management port (RS-232), RJ45
Alarm interface	2-pin 7.62mm pitch terminal blocks, support 1 relay alarm output, current load capability is 5A@30VDC or 10A@125VAC
Indicator	Power supply indicator, run indicator, interface indicator, alarm indicator
Switch Property	
Backplane bandwidth	12.8G
Packet buffer size	3Mbit
MAC Address Table	8K
Power Supply	
Input power supply	Voltage range: 12~48VDC. Support dual power supply redundancy, non-polarity and anti-reverse connection Support built-in 4.0A overcurrent protection
Access terminal block	4-pin 7.62mm pitch terminal blocks
Power Consumption	
No-load	5.28W@24VDC
Full-load	11.06W@24VDC
Working Environment	
Working temperature	-40℃～75℃
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.