IES6300PN-8GT2HS-2LV 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. Warranty card
3. Certificate

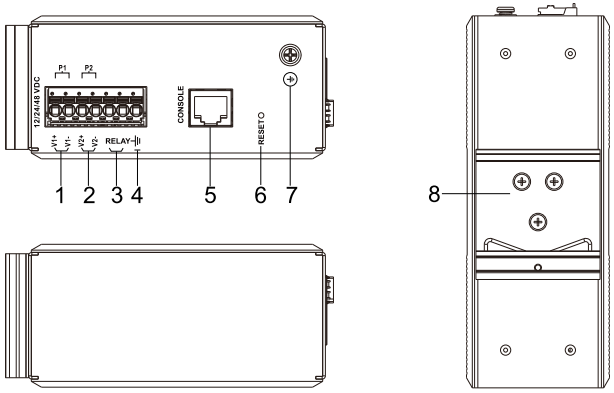
If any of these items are damaged or lost, please contact our company or dealers, we will solve it ASAP.

【Product Overview】

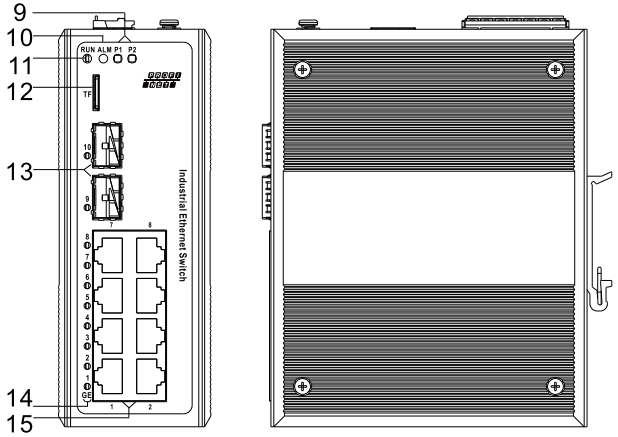
This series are layer 2 managed DIN-Rail PROFINET industrial Ethernet switches. The model is: IES6300PN-8GT2HS-2LV-N (8 Gigabit copper ports + 2 Gigabit/2.5G SFP slots + 12~48VDC redundant power supply input).

【Panel Design】

➢ **Top view, bottom view and rear view**



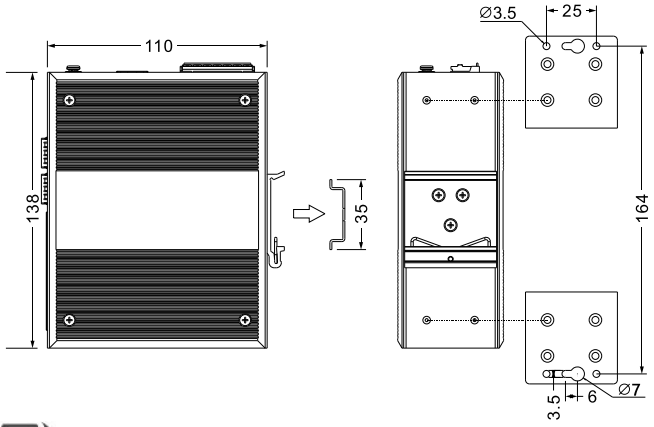
➢ **Front view and right view**



1. Terminal blocks for Power P1 input (P1)
2. Terminal blocks for Power P2 input (P2)
3. Terminal blocks for relay output (RELAY)
4. Protective shell grounding
5. CONSOLE port
6. RESET button
7. Grounding screw (M4)
8. DIN-Rail mounting kit
9. Power indicator (P1, P2)
10. Alarm indicator (ALM)
11. Running indicator (RUN)
12. TF card slot (Micro SD Card)
13. Gigabit/2.5G SFP slot (GE9-10)
14. Interface indicator (GE1-10)
15. Gigabit copper port (GE1-8)

【Mounting Dimension】

Unit: mm



Note:

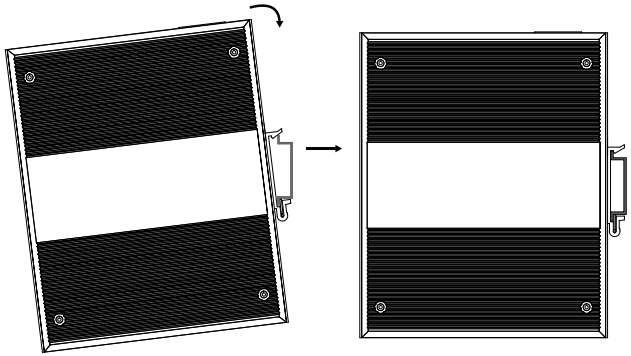
The wall-mounting panel at the right side of the above figure is an optional attachment, not standard; DIN-Rail kit is standard.

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.

【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 Insert the bottom of DIN-Rail mounting kit (one side with spring support) into DIN-Rail, and then insert the top into DIN-Rail.

Tips:

Insert a little to the bottom, lift upward and then insert to the top.

Step 3 Check and confirm the product is firmly installed on DIN-Rail, then mounting ends.

【Disassembling DIN-Rail】

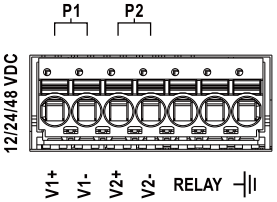
Step 1 Power off the device.

Step 2 After pressing the device downward slightly, first shift out the top of DIN-Rail mounting kit, and then shift out the bottom of DIN-Rail, 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.

【Power Supply Connection】

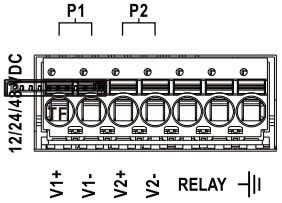


Provide 7-pin 5.08mm pitch terminal blocks, the power supply occupies the left 4 pins and support P1 and P2 DC redundant power input, support non-polarity. The power input supports 1 single power supply input or 2 power supply inputs at the same time; When two power supply input at the same time, it supports redundant backup of power supply. If one power supply fails, the device can still work normally without interruption. The definitions of power pin are shown in the left figure, and the power input range is 12/24/48VDC (12~48VDC).

Note:

The terminal blocks are pluggable and with spring. When wiring, use a slotted screwdriver to press the spring, connect the cable to the corresponding hole, and then loosen the spring part. When disassembling, the spring should also be pressed.

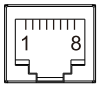
【Relay Connection】



Provide 7-pin 5.08mm pitch terminal block, the relay occupies the second pin and the third pin on the right, support 1 relay alarm output. The relay supports power supply alarm, network abnormality alarm or other configuration event 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. The default relay status is shown in the figure below.

Device Status	Relay Contacts	Alarm
Not powered on or powered off,	Closed	Yes
Powered on, but not working properly	Closed	Yes
Powered on, and working properly without triggering any alarm	Disconnected	None
Powered on, and working properly, but it triggered alarms	Closed	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 definition as follows:

Pin No.	2	3	5
Definition	TXD	RXD	GND

【Reset Button Setting】

RESET ○ Provide 1 RESET button that can be used to reboot the device and restore factory defaults. Press the RESET button for 1-2s and release it, and the device will restart automatically; Press and hold the RESET button for 5s and release it, and the device will restore the factory defaults and automatically restart.

【Insert/Unplug TF Card】

This device has 1 self-propelled TF card slot, and supports system debugging and configuration file management. Insert TF card into the card slot. Tap TF card, and then take it out after the card pops up.

【Checking LED Indicator】

Provide 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
RUN	ON	When the device works normally, the indicator is always on: ● Orange: the PROFINET AR status is offline ● Green: the PROFINET AR status

		is online
	Blinking	When the current device is indicated in PROFINET configuration software, the green/orange indicator flashes at a fixed frequency
	OFF	Device is not started or device is abnormal
ALM	ON	Power, port or other configuration event has alarms
	OFF	Power, port and other configuration event has no alarm.
P1, P2	ON	Power supply is running normally
	OFF	Power supply is disconnected or running abnormally
GE1-10	ON	Ethernet port has established a valid network connection
	Blinking	Ethernet port is in an active network status
	OFF	Ethernet port has not established a valid network connection.

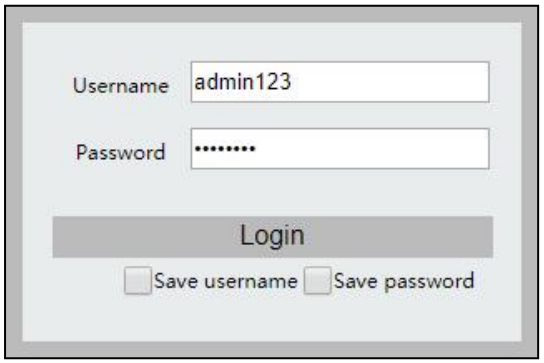
【Logging in to WEB Interface】

Support WEB management and configuration. Computer can access the device via Ethernet interface. The way of logging in to device's configuration interface via 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.
- The default user name and password is "admin123".
- If the user name or password is lost, user can restore it to factory settings via RESET 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-Adaption or Forced Mode, RJ45, Automatic Flow Control, Full/Half Duplex Mode, MDI/ MDI-X Autotunning
SFP slot	1000M/2.5G Base-X SFP self-adaption or forced mode, SFP slot, can be configured as copper port
TF card slot	1 self-propelled TF (Micro SD) card slot
Relay interface	Support 1 relay alarm information output, adopt 7-pin 5mm pitch terminal blocks (2-pin relay), the current loading capacity is 1A@30VDC or 0.3A@125VAC
CONSOLE port	CLI command line management port (RS-232), RJ45
Indicator	RUN indicator, ALM indicator, power supply indicator, interface indicator
Switch Property	
Backplane bandwidth	20G
Cache size	2Mbit
MAC address table	16K
Power Supply	
Input power supply	12/24/48VDC (12~48VDC), dual power supply redundancy, support non-polarity
Access terminal block	7-pin 5.08mm pitch terminal blocks, power supply occupies the left 4 pins
Power Consumption	
No-load	3.1W@24VDC
Full-load	7.8W@24VDC
Working Environment	
Working temperature	-40~75℃
Storage temperature	-40~85℃
Working humidity	0%～95% (no condensation)
Protection grade	IP40 (aluminum 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.