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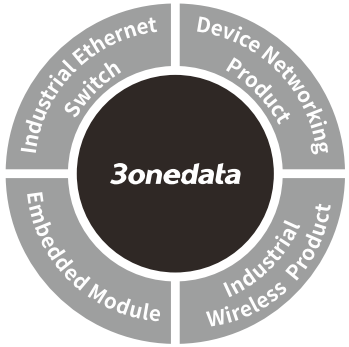
Make network communication more reliable

IPS7110 Series
Managed Industrial Ethernet Switch
Quick Installation Guide



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【Package Checklist】

Please check whether the package and accessories are intact while using the switch for the first time.

1. Industrial Ethernet switch
2. Certification
3. Quick installation guide
4. Warranty card
5. DIN-Rail mounting attachment
6 CD

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

【Product Overview】

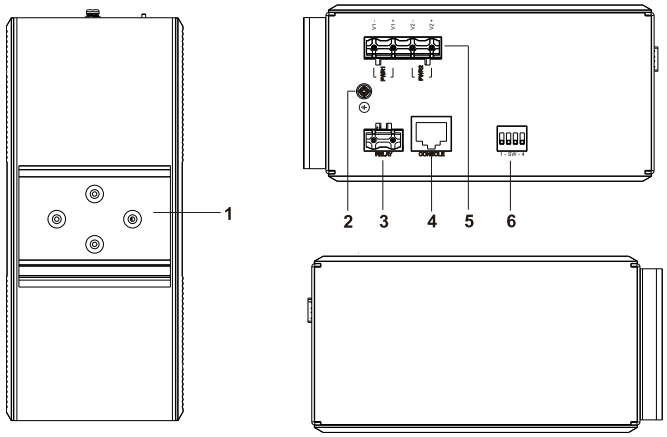
This series are managed DIN-Rail industrial Ethernet switches. Models as follows:

Model I. IPS7110-2GC-8POE (2 Gigabit Combo + 8 100M PoE copper ports)

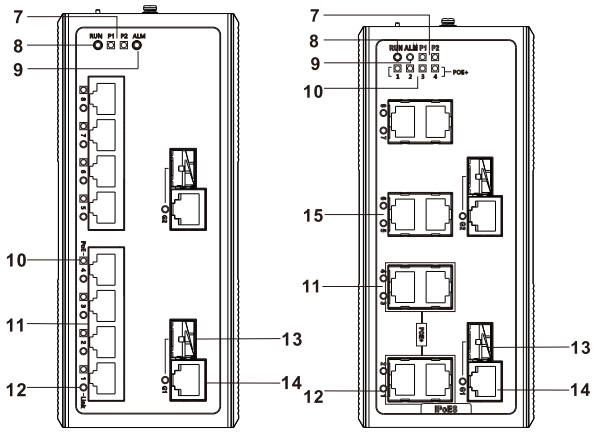
Model II. IPS7110-2GC-4T-4POE (2 Gigabit Combo + 4 100M copper ports + 4 100M PoE copper ports)

【Panel Design】

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



➢ **Front view**

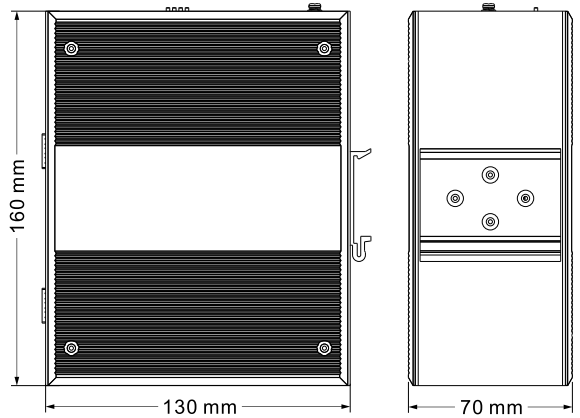


Model I Model II

1. DIN-Rail mounting kit
2. Grounding screw
3. Relay alarm output terminal block
4. Console port
5. Power supply input terminal block
6. DIP switch
7. Power supply indicator
8. System running indicator
9. Alarm indicator
10. POE port indicator
11. 10/100Mbps-T(X)POE port
12. Ethernet Link/Act indicator:
13. Gigabit SFP port of Combo port
14. Gigabit copper port of Combo port
15. 10/100Base-T(x) copper port

【Mounting Dimension】

Unit: mm

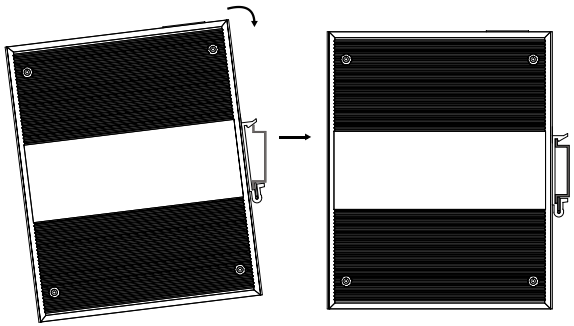


Attention before mounting:

- 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】

For convenient usage in industrial environments, the product adopts 35mm DIN-Rail mounting, mounting steps as below:



Step 1 Check whether the DIN-Rail mounting kit that comes with the device 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, and then mounting ends.

【Disassembling DIN-Rail】

Step 1 Power off the device.

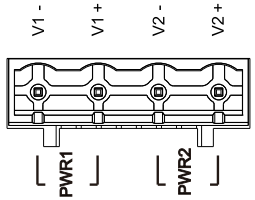
Step 2 After lift the device upward slightly, first shift out the top of DIN-Rail mounting kit, and then shift out the bottom of DIN-Rail, disassembling ends.

Attention before powering on:

- Power ON operation: first connect power line to the connection terminal of device power supply, and then power on.
- Power OFF operation: first unpin the power plug, and then remove the power line, please note the operation order above.

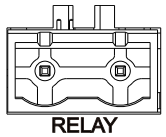
【Power Supply Connection】

The top panel of this switch provides 4-pin DC power supply input terminal blocks, and supports redundant power supply input function. It provides two pairs of power supply input



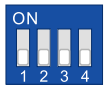
terminals, PWR1 and PWR2, which could be used individually or connected to two independent DC power supply systems. It uses two pairs of terminal blocks to connect to the device at the same time. When any one of the power supply systems fails, the device could operate normally without interruption, which has improved the reliability of network operation. Voltage input is 48VDC (the definitions of terminal are V1-, V1+, V2-, and V2+). The power supply supports anti-reverse connection.

【Relay Connection】



The access terminal of this relay is located on the top panel of the device. Relay terminal blocks are a pair of normally open contacts in the alarm relay of the device. They are open circuit in the status of normal no alarm, and closed when any warning message occurs. The product supports 1 relay warning message output, and warning messages output of the DC power supply or network abnormal alarm output. It can be connected to alarm indicator, alarm buzzer, or other switching value collecting devices for timely warning operating staffs when the warning message occurs.

【DIP Switch Settings】



The products provide 4 pins DIP switch for function settings, where "ON" is the enable valid terminal. Please power off and power on after changing the DIP switch status.

DIP switches definitions as follows:

DIP	Definition	Operation
1	Model I: data upgrade and detection Model II: Reserved	Set the DIP switch to ON
2	Restore factory defaults	Set the DIP switch to ON, the device will reboot and restore factory defaults, and then turn it off.
3	System upgrade	Set the DIP switch to ON
4	Reserved	-

【Console Port Connection】

The device provides 1 RS232-based procedure debugging port, and can manage the CLI command line of the device after connected to PC. The interface adopts RJ45 port, the RJ45 pins definition as follows:

Pin No.	2	3	5
Definition	TXD	RXD	GND

【Checking LED Indicator】

The function of each LED is described in the table as below:

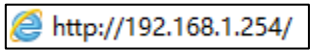
LED	Status	Description
PWR1	ON	PWR1 is connected and running normally
	OFF	PWR1 is disconnected and running abnormally.
PWR2	ON	PWR2 is connected and running normally
	OFF	PWR2 is disconnected and running abnormally.
Alarm	ON	Power supply and port link alarm
	OFF	Power supply and port link without alarm
RUN	ON/OFF	The device is abnormal.
	Blinking	The device is running normally
Link/Act (1-8/G1-G2)	ON	Ethernet port connection is active.
	Blinking	Data is being transmitted
	OFF	Ethernet port connection is inactive.
Link/POE (1-4/8)	ON	POE port supplies electricity for other devices normally
	OFF	POE function is disabled or disconnected

【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 "OK" 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 username and password of the device is "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	
100M copper port	10/100Base-T(X) RJ45, automatic flow control, full/half duplex mode, MDI/MDI-X autotunning
100M POE copper port	10/100Base-T(X) RJ45, automatic flow control, full/half duplex mode, MDI/MDI-X autotunning, POE port, output power of 15W or 30W.
Gigabit Combo port	10/100/1000Base-T(X) or 1000Base-SFP
POE pins	V+, V+, V-, V- are corresponding to the pins 1, 2, 3, 6
Console port	CLI command management port (RS-232), RJ45
Alarm interface	2 pins 7.62mm pitch terminal, support 1 channel relay alarm information output, current loading capability is 1A@24VDC or 0.5A@120VAC
Indicator	Power indicator, running indicator, interface indicator, PoE indicator and alarm indicator
Exchange attributes	
Backplane bandwidth	7.6G
Packet buffer size	1Mbit
MAC table size	8K
Power supply	
Input power supply	DC power supply 48VDC Support DC dual power supply redundancy and anti-reverse connection
Access terminal	4-pin 7.62mm pitch terminal blocks
Consumption	
Model I	No-load: 4.3W@48VDC Full-load: 123.6W@48VDC
Model II	No-load: 8.9W@48VDC Full-load: 114.4W@48VDC
Environmental limits	
Working temperature	-40℃~75℃
Storage temperature	-40℃~75℃
Working humidity	5%~95% (no condensation)
Protection grade	IP40 (metal shell)