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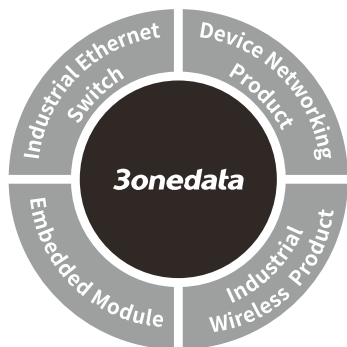Make network communication more reliable

IPS7110-2GC-8POE
Managed Industrial Ethernet Switch
Quick Installation Guide

3onedata Co., Ltd.

Address: 3/B, Zone 1, Baiwangxin High Technology Industrial Park, Xili, Nanshan District, Shenzhen

Website: www.3onedata.com

Tel: +86 0755-26702688

Fax: +86 0755-26703485

【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

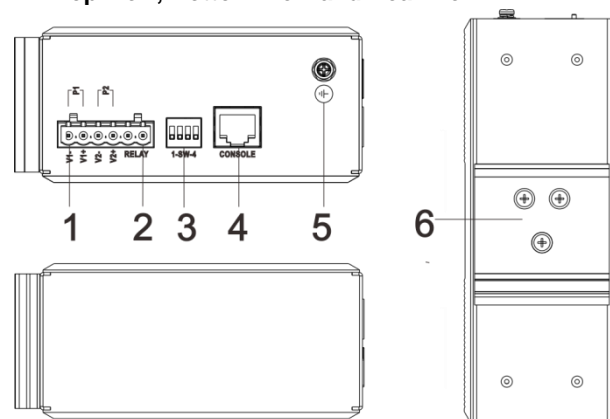If any of these items are damaged or lost, please contact our company or dealers, we will solve it ASAP.
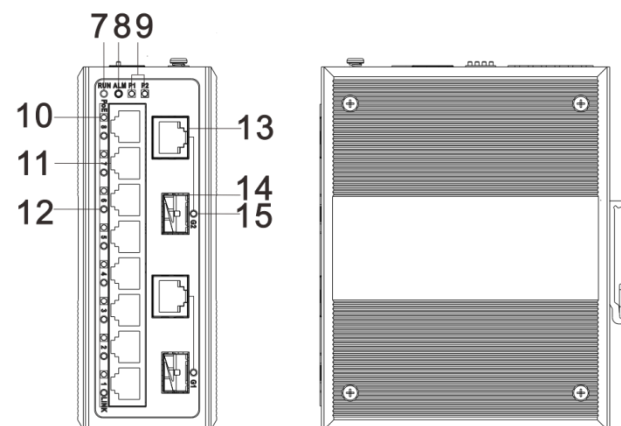
【Product Overview】

The product is managed DIN-Rail industrial POE Ethernet switch. Model as follows: IPS7110-2GC-8POE (2 Gigabit Combo ports + 8 100M POE ports).

【Panel Design】

➢ Top view, Bottom view and Rear view

➢ Front view and Side view

1. Power input terminal block
2. Relay alarm output terminal block
3. DIP switch
4. Console port
5. Grounding screw
6. DIN-Rail mounting kit
7. Device running indicator RUN
8. Relay alarm indicator ALM
9. Power supply input status indicator P1/P2
10. POE indicator
11. 100M POE copper port
12. 100M interface connection indicator
13. Gigabit SFP slot of Combo port
14. Gigabit copper port of Combo port
15. Gigabit Combo port connection indicator

【Mounting Dimension】

Unit: mm
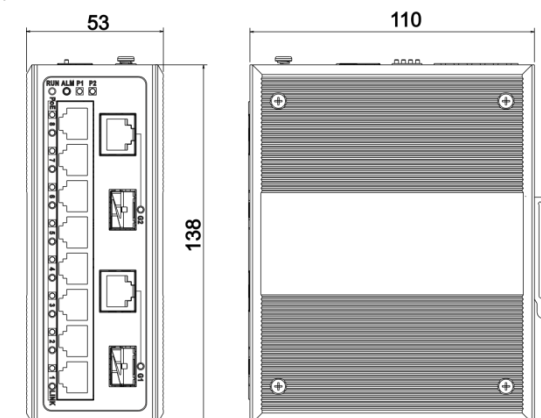
⚠ **Note:**

● 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 of the industrial scenes. Mounting steps as below:
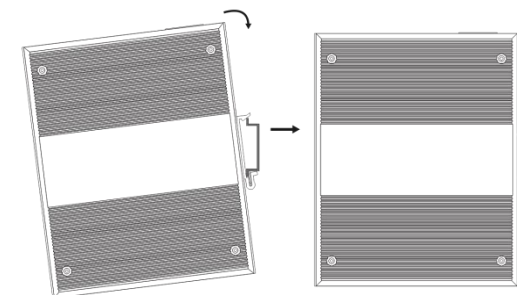
Step 1   Check if the DIN-Rail mounting kit is installed firmly.

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   Device power off.

Step 2   After lift the device upward slightly, first shift out the top of DIN-Rail mounting kit, then shift out the bottom of DIN-Rail, disassembling ends.
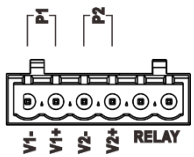
⚠ **Notes before powering on:**

● Power ON operation: first connect power line to the connection terminal of device power supply, then power on.

● Power OFF operation: first unpin the power plug, then remove the power line, please note the operation order above.
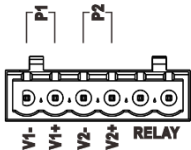
【Power Supply Connection】

➢ **DC power supply**

The device provides 6-pin 5.08mm pitch input terminal blocks, including 4-pin power supply terminal blocks on the left side. It provides two independent DC power supply systems for P1 and P2. The power supply has anti-reverse function.

Power supply input voltage: 48VDC

【Relay Connection】

The device provides 6-pin 5.08mm pitch input terminal blocks, including 2-pin relay terminal blocks on the right side. Relay terminals are a pair of normally open contacts in device alarm relay.

They are open circuit in normal non alarm state, closed when any alarm information occurs. Such as: it's closed when power off, and send out alarm. The switch supports 1 channel relay alarm information output, support DC power alarm information or network abnormal alarm output, it can be connected to alerting lamp, alarm buzzer, or other switching value collecting devices for timely warning operating staffs when alarm information occurs.

【DIP Switch Settings】

Provide 4-bits DIP switch for function setting, where "ON" is enable valid terminal. Please power off and power on after changing the status of DIP switch. DIP switch define as follow:

1. Reserved
2. Restore factory setting
3. Upgrade
4. Reserved

【Console Port Connection】

The device provides 1 channel procedure debugging port based on serial port, and can conduct device CLI command line management after connected to PC. The interface adopts RJ45 port, the RJ45 pin definition is 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
P1	ON	PWR1 is connected and running normally
	OFF	PWR1 is disconnected and running abnormally.
P2	ON	PWR2 is connected and running normally
	OFF	PWR2 is disconnected and running abnormally
ALM	ON	Power supply, port link alarm
	OFF	Power supply, port link without alarm
RUN	ON	The device is powered on or the device is abnormal.
	OFF	The device is powered off or the device is abnormal.
	Blinking	System is running well.
Link/ACT (1-8, G1-G2)	ON	Ethernet port connection is active.
	Blinking	Data transmitted
	OFF	Ethernet port connection is inactive.
POE (1-8)	ON	POE port supply electricity for other devices normally
	OFF	POE 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.
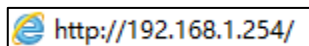
http://192.168.1.254/

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

Windows Security

The server 192.168.1.254 is asking for your user name and password. The server reports that it is from Communication Device.

Warning: Your user name and password will be sent using basic authentication on a connection that isn't secure.

admin

•••••

☐ Remember my credentials

OK   Cancel

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 POE copper port	10/100 Base-T(X) RJ45, automatic flow control, full/half duplex mode, MDI/MDI-X autotunning, POE port, maximum output power consumption is 30W.
POE pins	V+, V-, V+, V- are corresponding to 1, 2, 3, 6.
Gigabit Combo port	10/100/1000Base-T(X) or 1000Base-X
Console port	CLI command management port (RS-232), RJ45
Alarm interface	6-pin 5.08mm pitch terminal blocks, including 2-pin alarm terminal blocks. It supports 1 channel relay alarm information output, current load capacity is 1A@30VDC or 0.3A@125VAC
Indicator	Run indicator, interface indicator power indicator, alarm indicator, PoE indicator
Exchange attributes	
Backplane bandwidth	7.6G
Packet buffer size	1Mbit
MAC table size	8K
Power supply	
Input power supply	Power supply input voltage: 48VDC Support dual power supply redundancy, anti-reverse
Access terminal	6-pin 5.08mm pitch terminal blocks, including 4-pin power supply terminal blocks
Consumption	
No-load	4.9W@48VDC
Full-load	122.8W@48VDC
Working environment	
Working temperature	-40~75℃

Storage temperature	-40~85℃
Working humidity	5%~95% (no condensation)
Protection grade	IP40 (metal shell)