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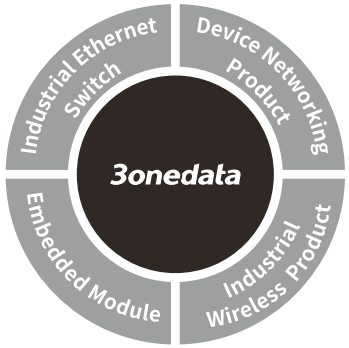
IPS716-2GC-4POE
Managed Industrial PoE Ethernet Switch Quick Installation Guide



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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

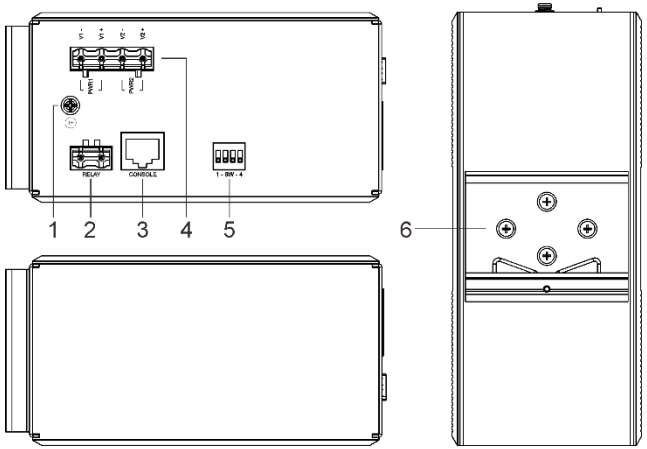
If any of these items are damaged or lost, please contact our company or dealers, we will solve it ASAP.

【Product Overview】

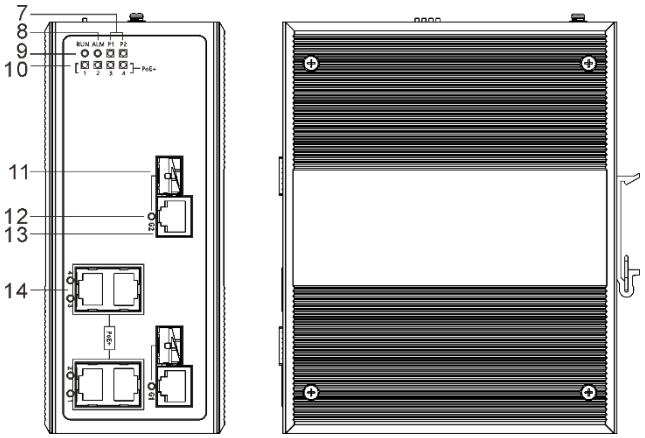
The product is managed industrial DIN-Rail PoE Ethernet switch. The model is: IPS716-2GC-4POE (2 Gigabit Combo Ports + 4 100M PoE Copper Ports)

【Panel Design】

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



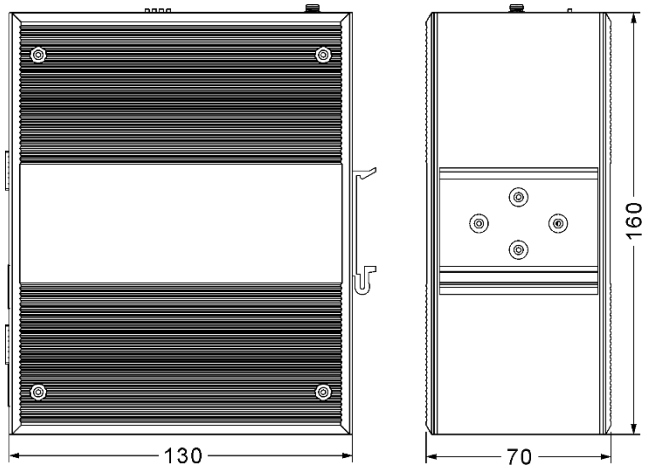
➢ **Front view and Side view**



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

【Mounting Dimension】

Unit: mm

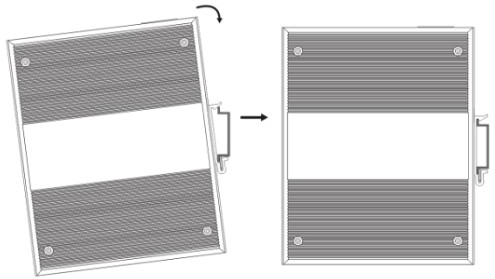


Attention before mounting:

- 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.

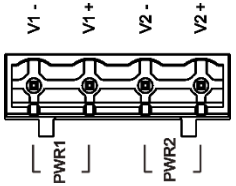
Step 2 After lift the device upward slightly, first shift out the top of DIN-Rail mounting kit, and then shift out the bottom of DIN-Rail, disassembling ends.

Attention before power 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.

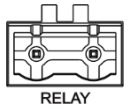
【Power Supply Connection】

➢ **DC power supply**



The product provides 4 pins power supply input terminal blocks and two independent DC power supply systems of PWR1 and PWR2. The power supply supports anti-reverse connection. Power supply range: 48VDC.

【Relay Connection】



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. For example: they are closed and send out alarm when power off. 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 product provides 4 pins DIP switch for function settings, where "ON" is the enable valid terminal.

DIP switch definitions as follows:

DIP	Definition	Operation
1	Reserved	-
2	Restore factory defaults	Set the DIP switch to ON, the device will automatically restore factory defaults, and then turn off the DIP switch.
3	Upgrade	Set the DIP switch to ON, the device will be upgraded, and then turn off the DIP switch.
4	Reserved	-

【Console Port Connection】

The device provides 1 channel procedure debugging port based on serial 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:

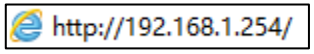
LED	Status	Description
P1	ON	PWR1 is connected and running normally
	OFF	PWR1 is disconnected and running abnormally.
P2	ON	PWR2 is connected and running normally
	OFF	PWR2 is disconnected and running abnormally
ALM	ON	Power supply and port link alarm
	OFF	Power supply and port link without alarm
RUN	ON	The device is powering on or abnormal.
	OFF	The device is powered off or abnormal.
	Blinking	Blink once per second, the device is running well.
Link/ACT (1-4/G1-G2)	ON	Ethernet port connection is active.
	Blinking	Data transmitted
	OFF	Ethernet port connection is inactive.
PoE+ (1-4)	ON	PoE port is powering other devices.
	OFF	PoE port is not connected or PoE function is not enabled.

【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	
Gigabit Combo port	1000Base-SFP, optional Gigabit SFP slot or 10/100/1000Base-T(X) Gigabit RJ45
100M PoE copper port	10/100Base-T(X) self-adapting RJ45 port, full/half duplex self-adaption or specified operating mode, support MDI/MDI-X self-adaption; the greatest output power of single PoE port is 30W
PoE power supply pin	V+, V+, V-, V- correspond to 1, 2, 3, 6
Console port	CLI command management port (RS-232), RJ45
Alarm interface	2 pins 7.62mm pitch terminal blocks, support 1 channel relay alarm information output, current loading ability is 1A@24VDC or 0.5A@120VAC
Indicator	Power indicator, running indicator, interface indicator, alarm indicator and PoE+ indicator
Exchange attributes	
Backplane bandwidth	7.6G
Packet buffer size	1Mbit
MAC table size	8K
Power supply	
Input power supply	48VDC, dual power supply redundancy, anti-reverse connection
Access terminal	4 pins 7.62mm pitch terminal blocks
Consumption	
No-load	7.9W@48VDC
Full-load	113.4W@48VDC
Environmental Limits	
Working temperature	-40~75℃
Storage temperature	-40~75℃
Working humidity	5%~95% (no condensation)
Protection grade	IP40 (metal shell)