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IPS215 Series Unmanaged Industrial Ethernet PoE 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

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

【Product Overview】

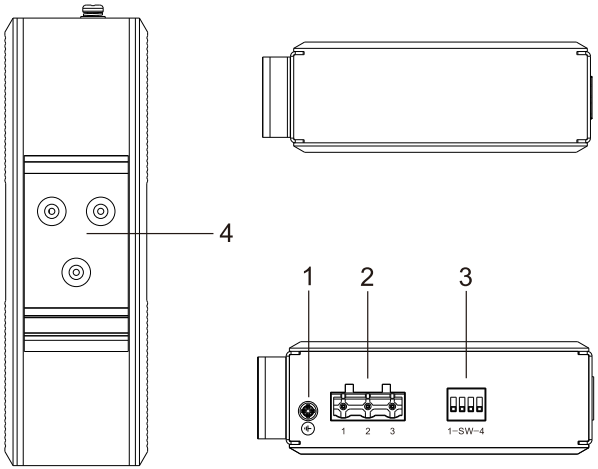
The product is 5-port 100M layer 2 unmanaged industrial PoE Ethernet switch. Module as follows:

Model I. IPS215-4POE (1 100M copper port + 4 100M PoE)

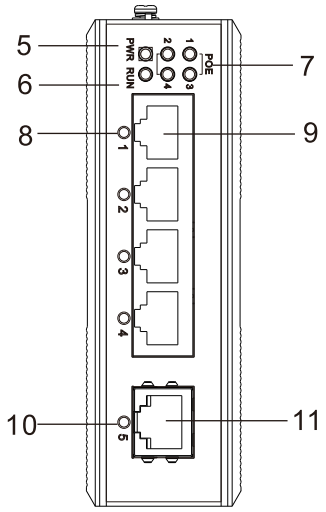
Model II. IPS215-1F-4POE (1 100M fiber port + 4 100M PoE)

【Panel Design】

➢ **Side view, Bottom view and Top view**

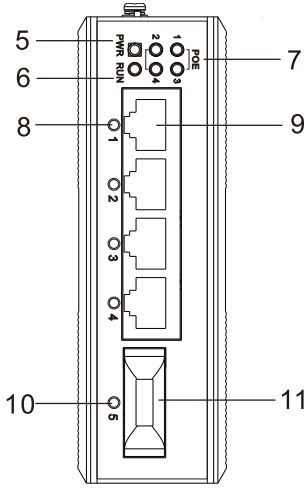


➢ **Front view**



Model I

1. Grounding screw
2. Power input terminal block
3. DIP switch
4. DIN-Rail mounting kit
5. Power supply indicator
6. Device running indicator
7. PoE port power supply status indicator
8. PoE port connection status indicator
9. 100M PoE port
10. 100M copper port connection status indicator
11. 100M copper port

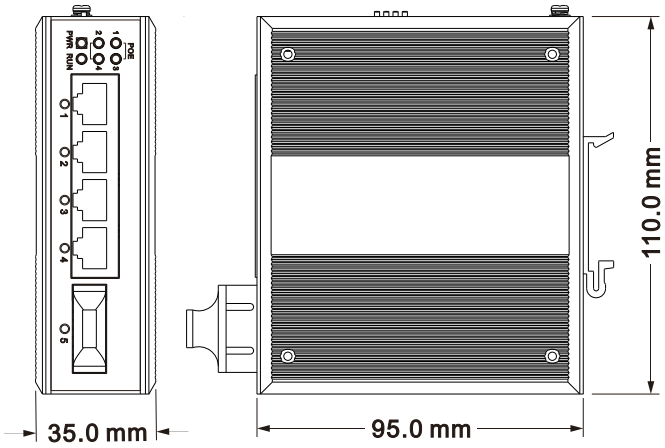


Model II

1. Grounding screw
2. Power input terminal block
3. DIP switch
4. DIN-Rail mounting kit
5. Power supply indicator
6. Device running indicator
7. PoE port power supply status indicator
8. PoE port connection status indicator
9. 100M PoE port
10. 100M fiber port connection status indicator
11. 100M fiber port

【Mounting Dimension】

Unit: mm

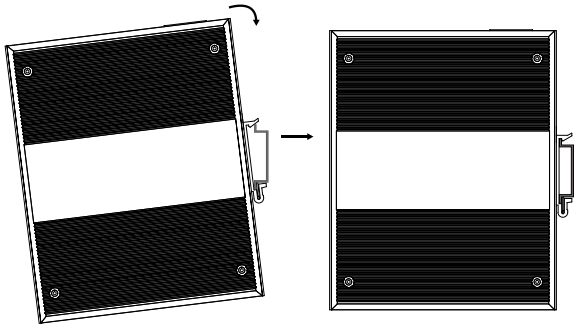


Note before installation:

- 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 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.

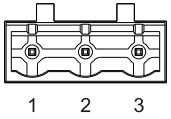
Step 2 After lift the device upward slightly, first shift out the top of DIN-Rail mounting kit, then shift out the bottom of DIN-Rail, disassembling ends.

Note before power 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 series devices provide 3 pins industrial terminal blocks (1, 2, 3), among which 1 and 3 are 45～55VDC power supply input. It supports anti-reverse functions.

【DIP Switch Setting】



Provide 4-bits DIP switch for function setting, where "ON" is enable valid terminal.

DIP switch defines as follow:

No.	Definition	Operation
1	Flow control	Set the switch to ON
2	100M copper port specified 10M	Set the switch to ON
3	VLAN (port5 can communicate with port 1-4, port 1-4 can't communicate with each other)	Set the switch to ON
4	Reserved	-

【Checking LED Indicator】

This device provides LED indicator for monitoring the work status of device, which has simplified the troubleshooting process comprehensively. The function of each LED is described in the table as below:

LED	Status	Description
PWR	ON	PWR is connected and running normally
	OFF	PWR is disconnected or running abnormally
RUN	ON/OFF	The device is abnormal
	Blinking	System is running normally
PoE port power supply status indicator (1-4)	ON	PoE port is powering other device normally
	OFF	PoE port is not powering other device
PoE port link status indicator (1-4)	ON	PoE port has established valid network connection
	Blinking	PoE port is in an active network status
	OFF	PoE port has not established valid network connection
Link/ACT (5)	ON	Ethernet port connection is active.
	Blinking	Data transmitted
	OFF	Ethernet port connection is inactive.

【Specification】

Panel	
100M fiber port	100Base-FX, optional SC/ST/FC interface

100M copper port	10/100Base-T(X) self-adapting RJ45 port, full/half duplex self-adaption or forced work mode, support MDI/MDI-X self-adaption
100M PoE port	10/100Base-T(X) self-adapting RJ45 port, full/half duplex self-adaption or forced work mode, support MDI/MDI-X self-adaption, the maximum power of PoE is 30W
PoE pin	V-, V-, V+, V+ correspond to Pin 1, 2, 3, 6
Indicator	Power indicator, run indicator, interface indicator and PoE indicator
Exchange attributes	
Backplane bandwidth	1.6G
Packet buffer size	1Mbit
MAC table size	2K
Power supply	
Input power supply	DC power supply product 45~55VDC Support anti-reverse connection
Access terminal	3-pin 7.62mm pitch terminal block
Consumption	
Model I	No-load: 2.26W@48VDC Full-load: 73.97W@48VDC
Model II	No-load: 2.69 W@48VDC Full-load: 74.06 W@48VDC
Working environment	
Working temperature	-40℃~75℃
Storage temperature	-40℃~85℃
Working humidity	5%~95% (no condensation)
Protection grade	IP40 (metal shell)