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Make network communication more reliable

IES2210 Series Unmanaged Industrial Ethernet Switch Quick Installation Guide

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【Package Checklist】

Please check the integrity of package and accessories while first using the switch.

1. Industrial Ethernet switch
2. DIN-Rail mounting attachment
3. Warranty card
4. Certification

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

【Product Overview】

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

Model I. IES2210-8T2GC-2P48 (8 100M copper ports + 2 Gigabit Combo ports + 2 48VDC power supplies)

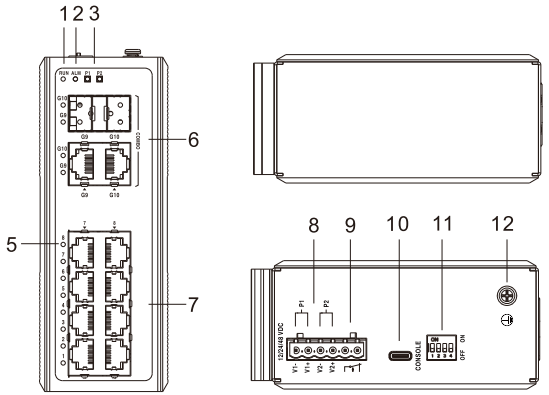
Model II. IES2210-8T2GC-P220 (8 100M copper ports + 2 Gigabit Combo ports + 1 220VAC power supply)

Model III. IES2210-8P2GC-2P24-120W (8 100M PoE copper ports + 2 Gigabit Combo ports + 2 24VDC power supplies + 120W PoE power)

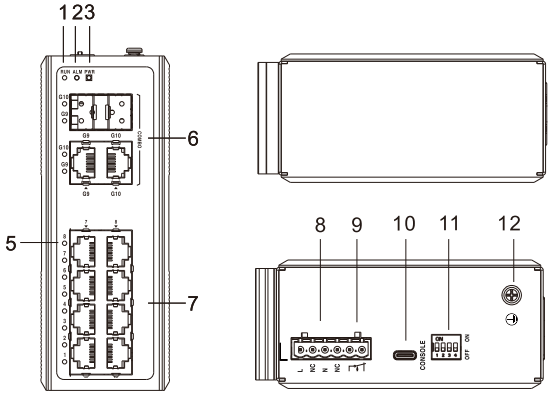
Model IV. IES2210-8P2GC-2P48-240W (8 100M PoE copper ports + 2 Gigabit Combo ports + 2 48VDC power supplies + 240W PoE power)

【Panel Design】

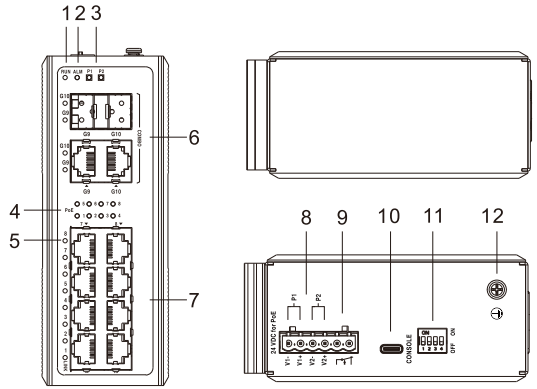
➢ **Front view, bottom view and top view**



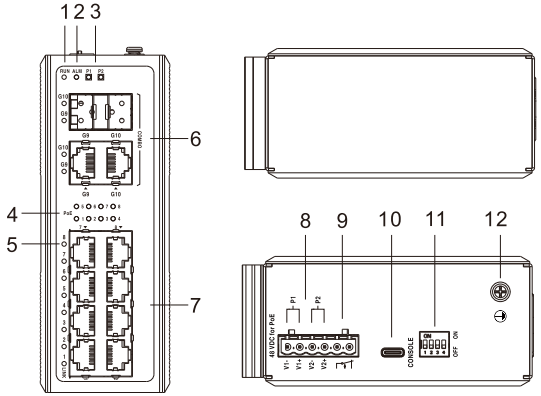
Model I



Model II

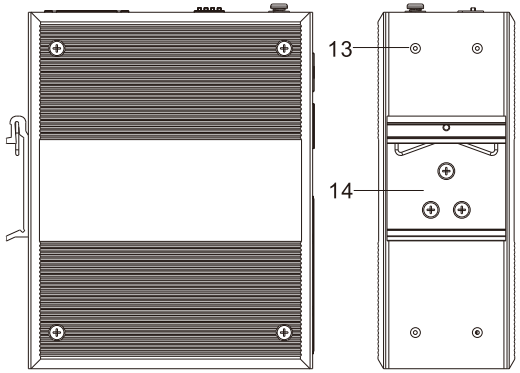


Model III



Model IV

➢ **Side view and rear view**

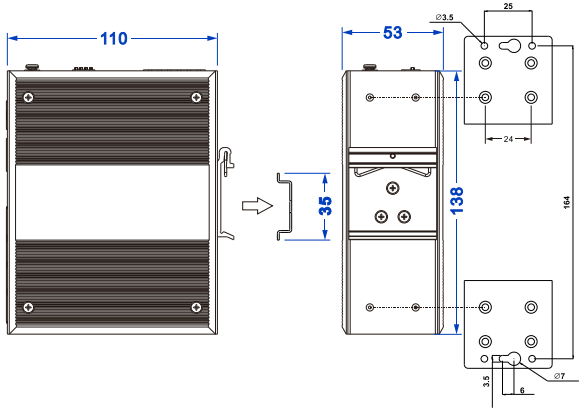


1. Device running state indicator (RUN)
2. Relay alarm status indicator (ALM)
3. Power input status indicator (PWR/P1-P2)

4. PoE indicator (PoE1-8)
5. Ethernet port indicator (1-8, G9-10)
6. Combo port (G9-10)
7. 100M copper port (1-8)
8. Terminal block for power input
9. Relay alarm output terminal block
10. Console port
11. DIP switch
12. Grounding screw
13. Wall-mounting location hole
14. DIN-Rail mounting kit

【Mounting Dimension】

Unit: mm

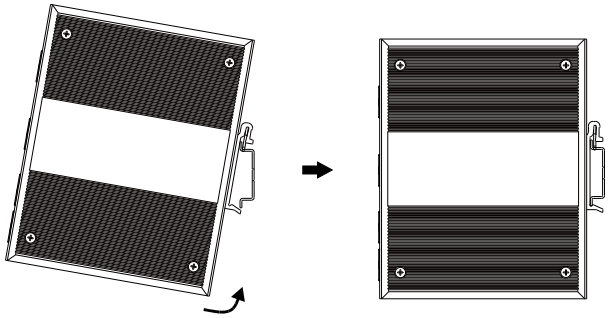


Notice Before Mounting:

- 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 are as follows:



Step 1 Check if the DIN-Rail mounting kit is installed firmly.

Step 2 Insert the top of DIN-Rail mounting kit (one side with spring support) into DIN-Rail, and then insert the bottom into DIN-Rail.

Tips:

Insert a little to the top, press downward and then insert to the bottom.

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.

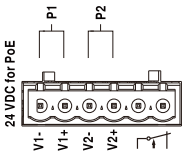
Step 2 After pressing the device downward slightly, first shift out the bottom of DIN-Rail mounting kit, and then shift out the top of DIN-Rail, disassembling ends.

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】

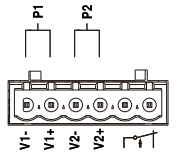
➢ **DC power supply 24VDC**



This series model III device provides 6-pin 5.08mm pitch input terminal blocks, with the power supply occupying the left four pins. It provides two independent DC power supply systems, P1 and P2, with reverse connection protection.

Power input voltage: 24VDC

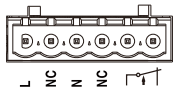
➢ **DC power supply 48VDC**



This series model I and model IV device provide 6-pin 5.08mm pitch input terminal blocks, with the power supply occupying the left four pins. It provides two independent DC power supply systems, P1 and P2, with reverse connection protection.

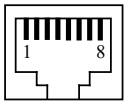
Model I power input voltage: 48VDC (12~48VDC), Model IV power input voltage: 48VDC

➢ **AC power supply 220VAC**



This series model II device supports AC single power supply solution, and provides 6-pin 5.08mm pitch input terminal blocks, with the power supply occupying the left four pins. Power input voltage: 220VAC (85~264VAC).

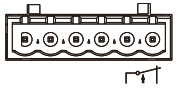
【Connect PoE Power Supply Pin】



PoE ports supply power through the following pins.

PIN	1	2	3	6
Definition	V+	V+	V-	V-

【Relay Connection】



This device provides 6-pin 5.08mm pitch input terminal blocks, and the relay occupies the right 2 pins. Relay terminals are a set of normally open contacts of the device alarm relay. They are open circuit in the state of normal non alarm, closed when any alarm information occurs. For example, they are closed when powered off, and send out alarm. The switch

supports 1 relay alarm information output that can output network abnormality 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.

【Console Port Connection】



The device provides one Console port with a USB Type-C interface for program burning.

【DIP Switch Settings】



Provide 4 pins DIP switch for function settings, where "ON" is enable valid terminal. The definitions of DIP switch are as follows:

No.	Definition	Operation
1	100M copper port flow control	Set the DIP switch to ON to enable flow control function
2	100M copper port forced 10M	When the DIP switch is set to ON, the device's 100M copper port is forced to operate at 10M.
3	Alarm	Set the DIP switch to ON to enable Port Alarm
4	Reserved	-

【Checking LED Indicator】

The device provides 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
P1/P2/PWR	ON	Power is connected and running normally
	OFF	Power supply is disconnected or running abnormally
ALM	ON	Port link has alarm
	OFF	Port link has no alarm
RUN	ON	The device is powering on or the device is abnormal
	OFF	The device is powered off or the
		device is abnormal.
	Blinking	Blinking once per second, the device is running normally.
Link/Act (1-8, G9-G10)	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
PoE (1-8)	ON	POE port is powering other devices normally
	OFF	POE is disabled or disconnected

【Specification】

Panel	
100M copper port	10/100 Base-T(X) RJ45, automatic flow control, full/half duplex mode, MDI/MDI-X autotuning,
100M PoE copper port	10/100 Base-T(X) RJ45, automatic flow control, full/half duplex mode, MDI/MDI-X autotuning, POE port, the output power is 15W or 30W.
POE pin	Pins 1, 2, 3, and 6 correspond to V+, V+, V-, and V-, respectively.
1000M Combo port	10/100/1000Base-T(X) or 1000Base-X
Console port	CLI command management port (RS-232), USB Type-C
Alarm port	6-pin 5.08mm pitch terminal blocks, alarm occupies 2 pins and 1 relay alarm information output is supported, the current load capability is 1A@30VDC or 0.3A@125VAC
Indicator	Run indicator, interface indicator power indicator, alarm indicator, PoE indicator
Switch Property	
Backplane bandwidth	5.6G
Buffer size	4Mbit
MAC address table	4K
Power Supply	
Input power supply	Power supply input voltage: 48VDC, 24VDC, 220VAC Support DC dual power supply redundancy, reverse connection protection
Access terminal block	6-pin 5.08mm pitch terminal blocks, power supply occupies 4 pins
Power Consumption	
Model I	No-load at 25℃: 2.38W@48VDC Full-load at 25℃: 4.05W@48VDC No-load at 75℃: 2.59W@48VDC Full-load at 75℃: 4.28W@48VDC
Model II	No-load at 25℃: 2.22W@220VAC Full-load at 25℃: 3.88W@220VAC No-load at 75℃: 2.46W@220VAC Full-load at 75℃: 4.12W@220VAC
Model III	No-load at 25℃: 3.31W@24VDC Full-load at 25℃: 122.6W@24VDC No-load at 75℃: 3.43W@24VDC Full-load at 75℃: 123.5W@24VDC
Model IV	No-load at 25℃: 3.17W@48VDC Full-load at 25℃: 225.6W@48VDC No-load at 75℃: 3.52W@48VDC Full-load at 75℃: 226.8W@48VDC
Working Environment	
Working temperature	-40~75℃

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