IES2210 Series Unmanaged Industrial Ethernet Switch Quick Installation Guide

【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. DIN-Rail mounting attachment
4. Warranty card

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 unmanaged DIN-Rail industrial Ethernet switches. Models as follows:

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

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

Model III. IES2210-4T2GC-2P48-N (4 100M copper ports + 2 Gigabit Combo ports + 2 48VDC power supplies)

Model IV. IES2210-4T2GC-P220-N (4 100M copper ports + 2 Gigabit Combo ports + 1 220VAC power supply)

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

Model VI. IES2210-8P2GC-2P48-120W-N (8 100M POE copper ports +2 Gigabit Combo ports +2 48VDC power supplies +120W POE power)

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

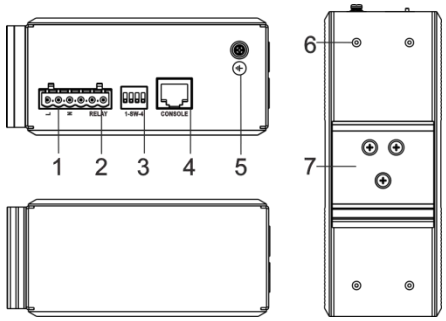
Model VIII. IES2210-4P2GC-2P24-60W-N (4 100M POE copper ports +2 Gigabit Combo ports +2 24VDC power supplies + 60W POE power)

Model IX. IES2210-4P2GC-2P24-120W-N (4 100M POE copper ports + 2 Gigabit Combo ports +2 24VDC power supplies + 120W POE power)

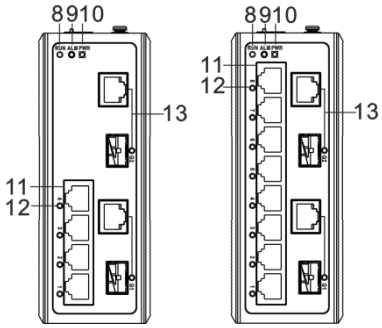
Model X. IES2210-4P2GC-2P48-120W-N (4 100M POE copper ports +2 Gigabit Combo ports +2 48VDC power supplies + 120W POE power)

【AC Panel Design】

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



➢ **Side view**

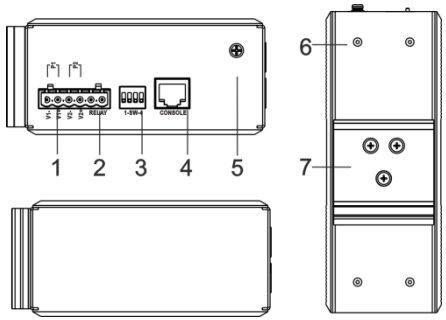


Model IV Model II

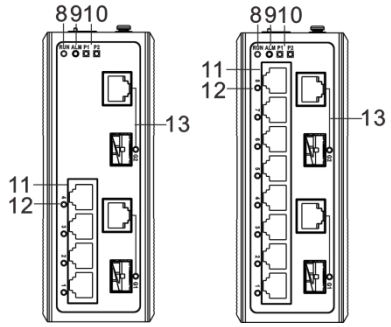
1. AC power input terminal block
2. Relay alarm output terminal block
3. DIP switch
4. Console port
5. Grounding screw
6. Wall-mounted location hole
7. DIN-Rail mounting kit
8. Device running indicator RUN
9. Relay alarm indicator ALM
10. Power input status indicator PWR
11. 100M copper port
12. Ethernet port indicator
13. Combo port

【DC Panel Design】

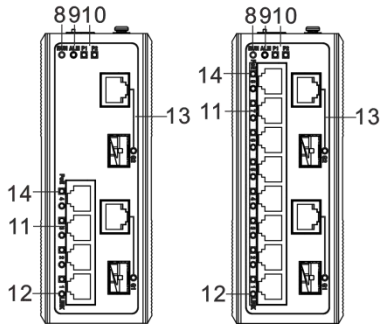
➢ **Top view, Bottom view and Rear view**



➢ **Side view**



Model III Model I



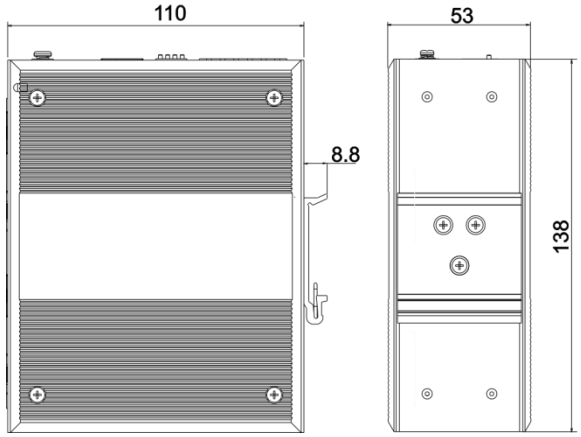
Model VIII, IX,X Model V, VI,VII

1. DC power input terminal block
2. Relay alarm output terminal block
3. DIP switch

4. Console port
5. Grounding screw
6. Wall-mounted location hole
7. DIN-Rail mounting kit
8. Device running indicator RUN
9. Relay alarm indicator ALM
10. Power input status indicator PWR
11. 100M copper port
12. Ethernet port indicator
13. Combo port
14. POE indicator

【Mounting Dimension】

Unit: mm

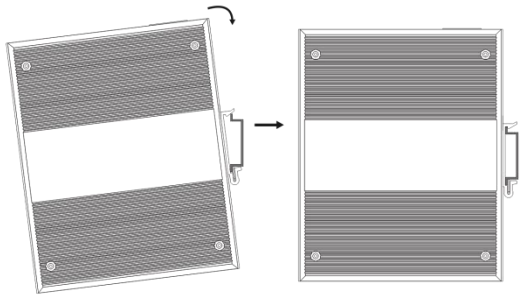


Attention before mounting:

- 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】

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 Power off the device.

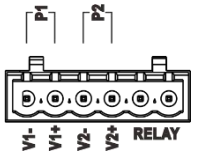
Step 2 After lift the device upward slightly, first shift out the top of DIN-Rail mounting kit, then shift out the bottom of DIN-Rail, disassembling ends.

Attention 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】

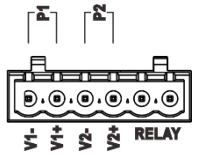
➢ **DC power supply 24VDC**



This series of model V, model VIII, model IX provide 6 pins 5.08mm pitch input terminal blocks, including 4 pins power supply terminal blocks on the left side. It provides two independent DC power supply systems of P1 and P2. The power supply is anti-reverse connection.

Power input voltage: 24VDC

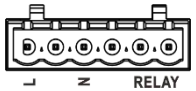
➢ **DC power supply 48VDC**



This series of model I, model III, model VI model VII and model X provide 6 pins 5.08mm pitch input terminal blocks, including 4 pins power supply terminal blocks on the left side. It provides two independent DC power supply systems of P1 and P2. The power supply is anti-reverse connection.

Power input voltage of model VI model VII and model X: 48VDC, power input voltage of model I and model III: 48VDC (12~48VDC).

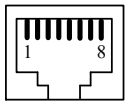
➢ **AC power supply 220VAC**



This series of model II and model IV support AC single power supply and provide 6 pins 5.08mm pitch input terminal blocks, including 4 pins power supply terminal blocks on the left side.

Power input voltage: 220VAC (85~264VAC).

【PoE Power Supply Pin Connection】



PoE port is powered by the following pins.

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

【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. For example: it's closed and sends out alarm when power off. The switch supports 1

relay alarm information and 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】

This series provide 4 pins DIP switch for function settings, where "ON" is enable valid terminal. DIP switch definition as follows:

DIP	Definition	Operation
1	Flow control	Set the DIP switch to ON, and the device will enable flow control
2	Port with the specified speed of 10M	Set the DIP switch to ON, and the 100M copper port of the device will be specified as 10M copper port
3	Alarm	Set the DIP switch to ON, and the device will enable port alarm
4	Reserved	-

【Checking LED Indicator】

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

LED	Status	Description
P1/P2/PWR	ON	Power supply is connected and running normally
	OFF	Power supply is disconnected and running abnormally.
ALM	ON	Port link alarm
	OFF	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 (1-4/8, G1-G2)	ON	Ethernet port connection is active.
	Blinking	Data transmitted
	OFF	Ethernet port connection is inactive.
POE (1-4/8)	ON	POE port supply electricity for other devices normally
	OFF	POE is disabled or disconnected

【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, the output power consumption is 15W or 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	Reserved
Alarm interface	6-pin 5.08mm pitch terminal blocks, including 2-pin alarm terminal blocks. It supports 1 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, 24VDC, 220VAC Support DC dual power supply redundancy, anti-reverse connection
Access terminal	6-pin 5.08mm pitch terminal blocks, including 4-pin power supply terminal blocks
Consumption	
No-load of model I	8.02W@48VDC
Full-load of model I	9.2W@48VDC
Environmental limits	
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.