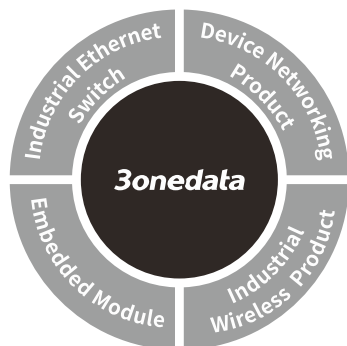


## IES6220 Series Managed Industrial Ethernet Switch Quick Installation Guide



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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】

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

Model I. IES6220-16T4GS-2P48 (16 100M copper ports + 4 Gigabit SFP slots + 2 48VDC power supplies)

Model II. IES6220-16T4GS-P220 (16 100M copper ports + 4 Gigabit SFP slots + 1 220VAC power supply)

Model III. IES6220-16P4GS-2P48-120W (16 100M PoE copper ports + 4 Gigabit SFP slots + 2 48VDC power supplies + 120W POE power)

Model IV. IES6220-16P4GS-2P48-200W (16 100M PoE copper ports + 4 Gigabit SFP slots + 2 48VDC power supplies + 200W POE power)

Model V. IES6220-16P4GS-2P24-120W (16 100M POE copper ports + 4 Gigabit SFP slots + 2 24VDC power supplies + 120W POE power)

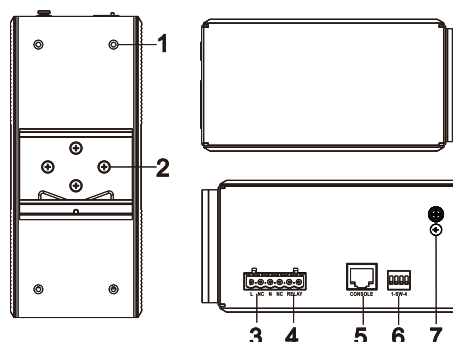
Model VI. IES6220-8T8P4GS-2P48-120W (8 100M copper ports + 8 100M PoE copper ports + 4 Gigabit SFP slots + 2 48VDC power supplies + 120W POE power)

Model VII. IES6220-8T8P4GS-2P48-200W (8 100M copper ports + 8 100M PoE copper ports + 4 Gigabit SFP slots + 2 48VDC power supplies + 200W POE power)

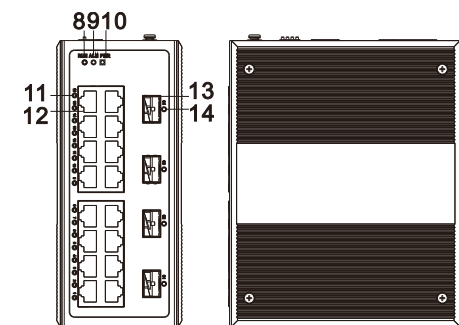
Model VIII. IES6220-8T8P4GS-2P24-120W (8 100M copper ports + 8 100M PoE copper ports + 4 Gigabit SFP slots + 2 24VDC power supplies + 120W POE power)

### 【AC Panel Design】

#### ➤ Rear view, Bottom view and Top view



#### ➤ Front view and Side view

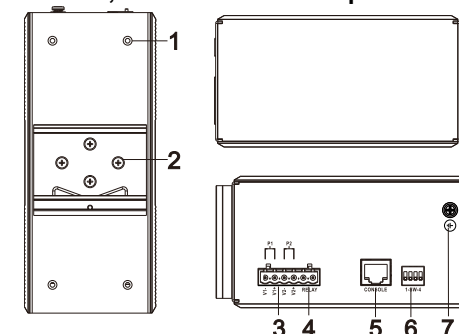


Model II

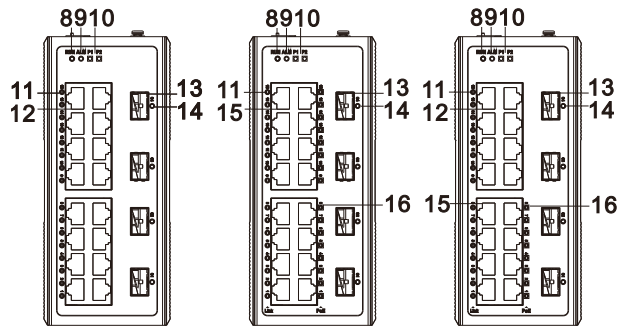
1. Wall-mounting location hole
2. DIN-Rail mounting kit
3. AC power input terminal block
4. Relay alarm output terminal block
5. Console port
6. DIP switch
7. Grounding screw
8. Device running indicator RUN
9. Relay alarm indicator ALM
10. Power input status indicator PWR
11. 100M copper port connection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

### 【DC Panel Design】

#### ➤ Rear view, Bottom view and Top view



#### ➤ Front view

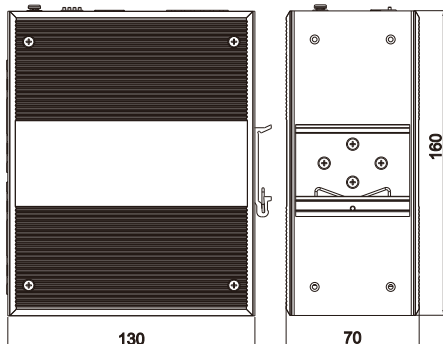


Model I      Model III, IV, V      Model VI, VII, VIII

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

### 【Mounting Dimension】

Unit: mm



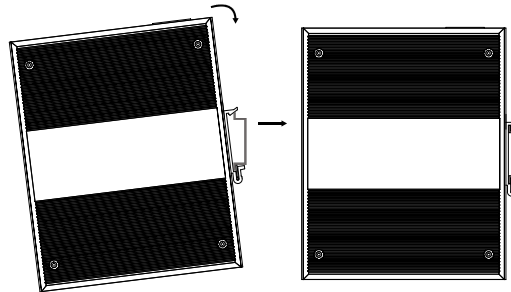
### Attention before mounting:

- 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 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.

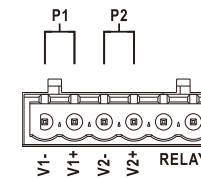


### Notes before power on:

- 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

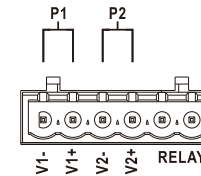


This series of model V, model VIII provide 6 pins 5.08mm pitch input terminal blocks, including 4 pins power supply terminal blocks on the left side. It provides two independent DC power supply systems of P1 and

P2. The power supply is anti-reverse connection.

Power input voltage: 24VDC

#### ➤ DC power supply 48VDC



This series of model I, model III, model IV, model VI and model VII 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 III, model IV, model VI and model VII: 48VDC, power input voltage of model I: 48VDC (12~48VDC).

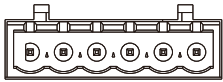
#### ➤ AC power supply 220VAC



This series of model II supports 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).

### 【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 pins DIP switch for function settings, where "ON" is enable valid terminal. DIP switches definition as follows:

DIP	Definition	Operation
1	Restore factory defaults	Set the DIP switch to ON, power on the device again, it will restore to factory settings, then turn off the DIP switch.
2	Reserved	-
3	Upgrade	Set the DIP switch to ON, the program of this device can be upgraded, then turn off the DIP switch when this upgrade completes.
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/P2/PWR	ON	Power supply is connected and running normally
	OFF	Power supply 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 (1-16, G1-G4)	ON	Ethernet port connection is active.
	Blinking	Data transmitted
	OFF	Ethernet port connection is inactive.
POE (1-8/16)	ON	POE port supply electricity for other devices normally
	OFF	POE is disabled or disconnected

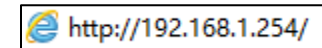
### 【Logging in to WEB Interface】

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.



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	
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 consumption is 15W or 30W.
100M copper port	10/100 Base-T(X) RJ45, automatic flow control, full/half duplex mode, MDI/MDI-X autotuning
POE pins	V+, V-, V+, V- are corresponding to 1, 2, 3, 6.
Gigabit SFP	1000Base-SFP
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	12.8G
Packet buffer size	3Mbit
MAC table size	8K
Power supply	
Input power supply	Power supply input voltage: 48VDC, 24VDC, 220VAC Support DC dual power supply redundancy, anti-reverse

Access terminal	6-pin 5.08mm pitch terminal blocks, including 4-pin power supply terminal blocks
Consumption	
DC products	No-load consumption $\leq 157W@48VDC$ Full-load consumption $\leq 157.2W@48VDC$
AC products	No-load consumption $\leq 9.2W@220VAC$ Full-load consumption $\leq 9.6W@220VAC$
Working environment	
Working temperature	-40~75°C
Storage temperature	-40~85°C
Working humidity	5%~95% (no condensation)
Protection grade	IP40 (metal shell)