![3onedata logo] **3onedata**
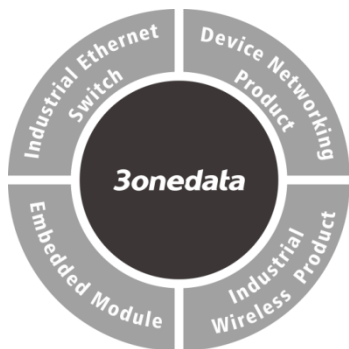Make network communication more reliable

IES5028 Series Managed 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 X 1
2. Terminal block
3. Power line (AC products)
4. Mounting lug
5. Quick installation guide
6. Foot pad
7. Certification
8. Warranty card
9. 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 of products are 28-port 100M/Gigabit layer 2 rack-mounted managed industrial Ethernet switches. Models include:

Model I.   IES5028-4GS (4 Gigabit SFP + 24 100M copper ports)

Model II.   IES5028-4GS-2F (4 Gigabit SFP + 22 100M copper ports + 2 100M fiber ports)

Model III.   IES5028-4GS-4F (4 Gigabit SFP + 20 100M copper ports + 4 100M fiber ports)

Model IV.   IES5028-4GS-8F (4 Gigabit SFP + 16 100M copper ports + 8 100M fiber ports)

Model V.   IES5028-4GS-12F (4 Gigabit SFP + 12 100M copper ports + 12 100M fiber ports)

Model VI.   IES5028-4GS-16F (4 Gigabit SFP + 8 100M copper ports +16 100M fiber ports)

Model VII.   IES5028-4GS-20F (4 Gigabit SFP + 4 100M copper ports + 20 100M fiber ports)

Model VIII.   IES5028-4GS-24F (4 Gigabit SFP + 24 100M fiber ports)

【Panel Design】

➢ **Front view**

➢ **Rear view**
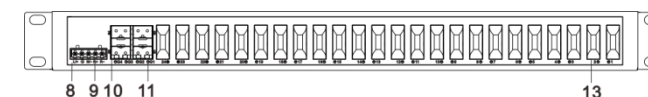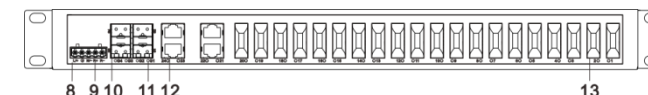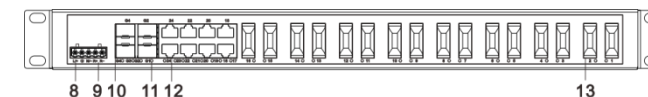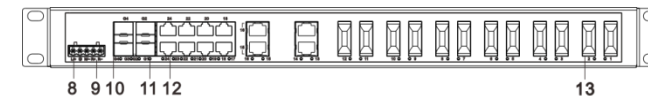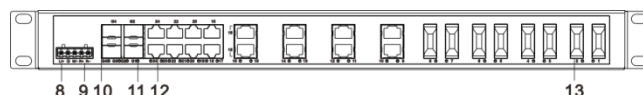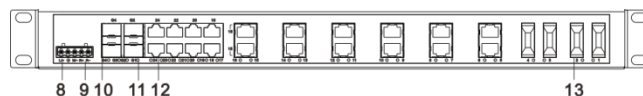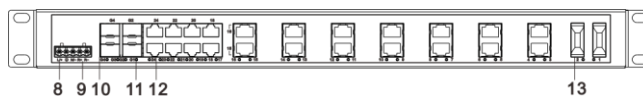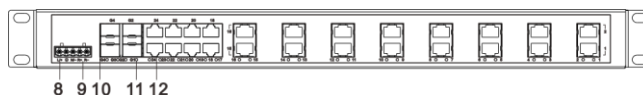
➢ **Top view**

➢ **Left view**
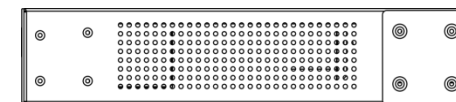
➢ **Right view**
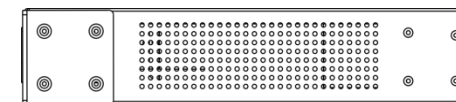
1. Restore factory defaults button
2. Console port
3. Ethernet port connection indicator
4. Device running status indicator RUN
5. Power supply input status indicator PWR
6. Relay alarm status indicator ALM
7. Rack mounting lug
8. Power input terminal block

9. Relay output terminal block
10. Gigabit SFP slot
11. Ethernet port connection indicator
12. 100M copper port
13. 100M fiber port

【Mounting Dimension】

Unit: mm

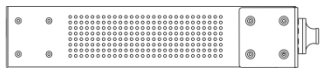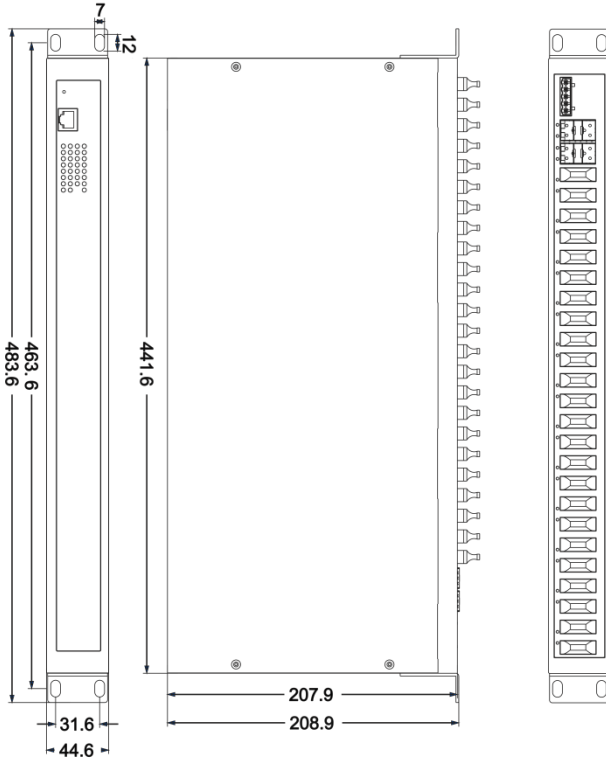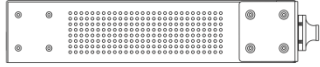- Before power on, first confirm the supported power supply specification to avoid over-voltage damaging the device.
- The device surface temperature is high after running, please don't directly contact to avoid scalding.

【Installation of Rack-mounted Device】

Step 1 Select the device installation location to reserve sufficient size.

Step 2 Adopt screws to install the mounting lugs in the device position as figure below.
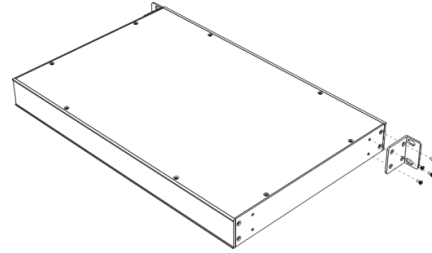
Step 3 Place the device in the rack, adopt 4 screws to install the mounting lugs on the left and right side in the rack.
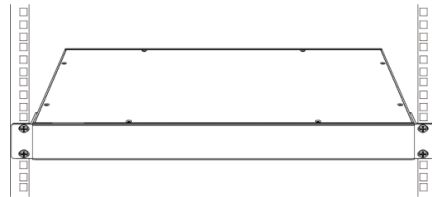
Step 4 Check and confirm the product is firmly installed on the rack, then mounting ends.

【Rack-mounting Device Disassembling】

Step 1 Power off the device.

Step 2 Unscrew the fixing screw of mounting lug on the rack.

Step 3 Remove the device from the rack, disassembling ends.

【Power Supply Connection】

This series of devices provide 5 pins 5.08mm pitch terminal blocks, power supply occupies 3 pins on the left. The power supply has nonpolarity and anti-reverse function, the device can be normally working after reverse connection. The pin definition of power supply as follows:
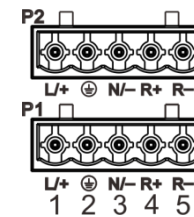
Pin NO.	1	2	3
Definition	L/+	GND	N/-

➢ **Single power supply**
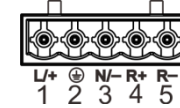
This series of products supports single power supply scheme, power supply value range is: 100~240VAC/DC.

➢ **Dual power supply**

This series of products support dual power supply scheme and provide P1 and P2 independent power supply systems. When one of the power supply system fails, the device can operate uninterruptedly and normally, which has improved the reliability of network operation. Power supply value range is: 100~240VAC/DC.

⚠️ **Notes:**

- Power ON operation: First insert the power supply terminal block into the device power supply interface, and then plug the power supply plug contact and power on.
- Power OFF operation: First unpin the power plug, and then remove the wiring part of terminal block, please pay attention to the operation order above.

【Relay Connection】

This series of devices provide 5 pins 5.08mm pitch terminal blocks; power supply occupies 3 pins on the left. Relay terminals are a pair of normally closed contacts in device alarm relay. They are open circuit in normal non alarm state, closed when power off. This series of single and dual power supply products respectively support 1 or 2 channels relay alarm output and disconnection alarm of power supply or port. The device can be connected to alarm indicator, alarm buzzer,

or other switching value collecting device, it can timely inform operator when alarm occurs. The pin definition of relay as follows:

Pin NO.	4	5
Definition	R+	R-

【Console Port Connection】

The device provides 1 program debugging port based on RS-232 serial port; it can manage the device CLI commands after being connected to PC. The interface adopts RJ45 port. Definition of RJ45 pins as follows:

Pin Number	2	3	5
Pin Definition	TXD	RXD	GND

【Restore Factory Defaults】

Steps of restore factory defaults as follows: Press the button of restore factory defaults, power on the device again; after 3~4s, loosen the button to restore factory defaults.

【Checking LED Indicator】

The device provides LED indicators to monitor the device working status with a comprehensive and simplified troubleshooting; the function of each LED is described in the table as below:

| LED	Status	Description
PWR	ON	Power supply is connected and running normally
	OFF	Power supply is disconnected or running abnormally.
ALM	ON	Power supply, port link alarm
	OFF	Power supply, port link without alarm
RUN	ON	The device is powering on or abnormal
	OFF	The device isn't powered on or is abnormal
	Blinking	Flash 1 time per second, the device is running normally.
Link/Act (1-24,	ON	Ethernet port connection is active.
	Blinking	Ethernet port is in network active

G1-G4)		status
	OFF	Ethernet port connection is inactive

【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 4   Configure the IP addresses of computer and the device to the same network segment, and the network between them can be mutually accessed.

Step 5   Enter device's IP address in the address bar of the computer browser.
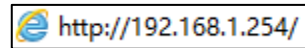
Step 6   Enter device's username and password in the login window as shown below.

Step 7   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 SFP	1000Base-SFP, SFP slot, LC interface
100M copper port	10/100Base-T(X) self-adapting RJ45 port, half/full duplex self-adaption, support MDI/MDI-X self-adaption
100M fiber port	100Base-FX, optional SC/ST/FC interface
Console port	CLI command management port (RS-232), RJ45
Alarm interface	5 pins 5.08mm pitch terminal blocks, including 2 alarm terminal blocks.Support 1 relay alarm output, current load capacity is 5A@30VDC or 10A@125VAC
Indicator	Power supply indicator, run indicator, interface indicator, alarm indicator
Exchange Attributes	
Backplane bandwidth	12.8G
Packet buffer size	3Mbit
MAC table size	8K
Power supply	
Input power supply	100~240VAC/DC, support single or dual power supply scheme, and 8A output overcurrent protection

Access terminal	5 pins 5.08mm pitch terminal blocks, including 3 pins power supply terminal blocks
Consumption	
IES5028-4GS	No-load: 7.4W@220VAC Full-load: 13.1W@220VAC
IES5028-4GS-2F	No-load: 8.7W@220VAC Full-load: 14.4W@220VAC
IES5028-4GS-4F	No-load: 10W@220VAC Full-load: 15.7W@220VAC
IES5028-4GS-8F	No-load: 12.6W@220VAC Full-load: 18.3W@220VAC
IES5028-4GS-12F	No-load: 15.2W@220VAC Full-load: 20.9W@220VAC
IES5028-4GS-16F	No-load: 17.8W@220VAC Full-load: 23.5W@220VAC
IES5028-4GS-20F	No-load: 19.4W@220VAC Full-load: 24.1W@220VAC
IES5028-4GS-24F	No-load: 22W@220VAC Full-load: 26.2W@220VAC
Environmental Limits	
Working temperature	-40~75℃
Storage temperature	-40~85℃
Working humidity	5%~95% (no condensation)
Protection grade	IP30 (metal shell)