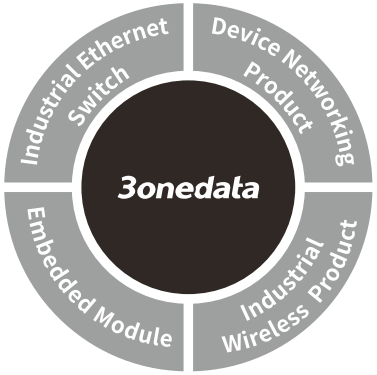
3onedata
Make network communication more reliable

IES3012G Series Unmanaged 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

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

【Product Overview】

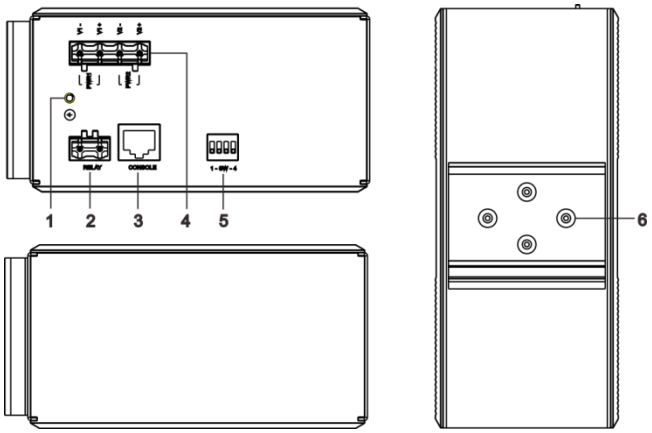
This series are full Gigabit unmanaged DIN-Rail industrial Ethernet switches. Models as follows:

Model I. IES3012G-4GS (4 Gigabit SFP + 8 Gigabit copper ports)

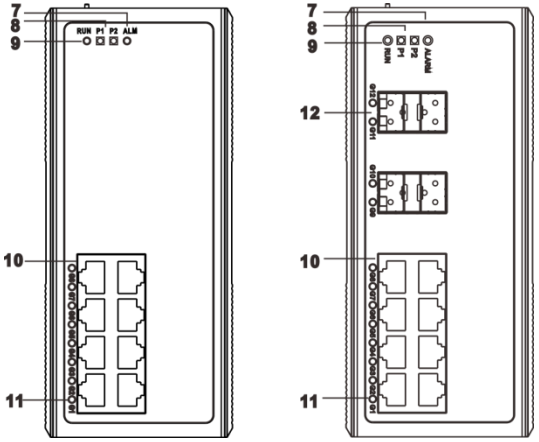
Model II. IES3012G-8GT (8 Gigabit copper ports)

【Panel Design】

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



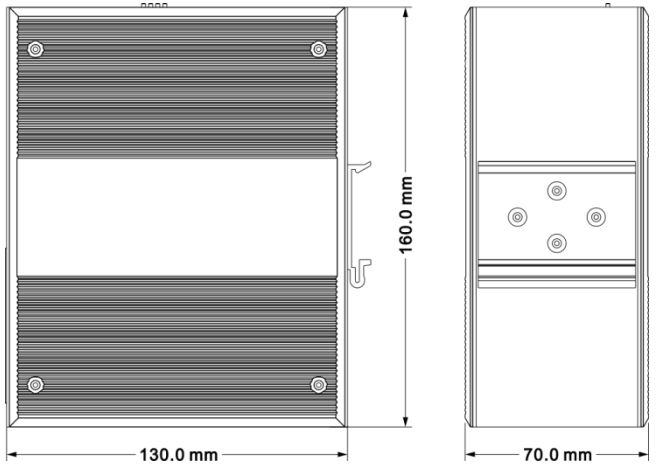
➢ **Front view**



1. Grounding screw
2. Relay alarm output terminal block
3. Console port
4. Power input terminal block
5. DIP switch
6. DIN-Rail mounting kit
7. Relay alarm status indicator ALM/ALARM
8. Power supply input status indicator P1/P2
9. Device running status indicator RUN
10. 10/100/1000Base-T(X) Gigabit Ethernet port
11. Ethernet port status indicator
12. 1000Base-SFP Gigabit Ethernet SFP slot

【Mounting Dimension】

Unit: mm

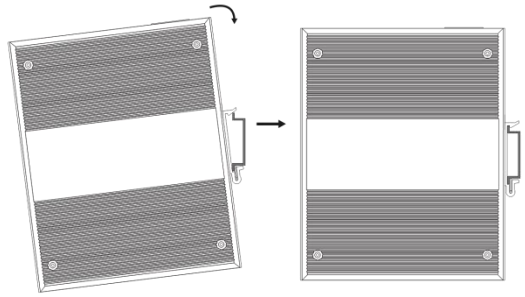


Attention before mounting:

- 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】

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 Power off the device.

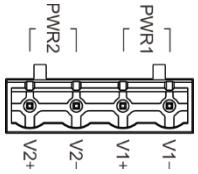
Step 2 After lift the device upward slightly, first shift out the top of DIN-Rail mounting kit, then shift out the bottom of DIN-Rail, disassembling ends.

Attention before powering 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.

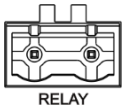
【Power Supply Connection】

➢ **DC power supply**



The series provide 4-pin power supply input terminal blocks and two independent DC power supply systems of PWR1 and PWR2. The power supply supports nonpolarity and anti-reverse connection. It can normally operate after reverse connection. Power supply range: 12～48VDC

【Relay Connection】



Relay terminals are a pair of normally open contacts in the alarm relay of the device. 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. This series support 1 channel relay alarm information output, and DC power alarm output. It can be connected to alarm indicator, alarm buzzer, or other switching value collecting devices for timely warning operator when alarm information occurs.

【DIP Switch Setting】



This series provide 4-pin DIP switch for function settings, where "ON" is enable valid terminal. Please power off and power on after changing the status of DIP switch. DIP switch definition as follows:

1. Abnormal alarm settings of the power supply connection
2. Reserved
3. Reserved
4. Reserved

【Checking LED Indicator】

This series provide LED indicators to monitor the operating status of the device, which can comprehensively simplify the troubleshooting. The detailed status of each LED is described in the table below:

LED	Status	Description
P1	ON	P1 is connected and running normally
	OFF	P1 is disconnected and running abnormally.
P2	ON	P2 is connected and running normally
	OFF	P2 is disconnected and running abnormally
ALM/ALARM	ON	Power supply link alarm
	OFF	Power supply link without alarm
RUN	ON	The device is powering on or running abnormally.
	OFF	The device is powered off or running abnormally.
	Blinking	Blink once per second, and the device is running well.
Link/ACT (G1-G8/G12)	ON	Ethernet port connection is active.
	Blinking	Data transmitted
	OFF	Ethernet port connection is inactive.

【Specification】

Panel	
Gigabit SFP	1000Base-SFP, SFP slot
Gigabit copper port	10/100/1000Base-T(X) self-adapting RJ45 port, full/half duplex self-adapting or specified operating mode, support MDI/MDI-X self-adaption
Console port	Reserved
Alarm interface	2-pin 7.62mm pitch terminal blocks, support 1 channel relay alarm information output
Indicator	Power supply indicator, running indicator, interface indicator and alarm indicator
Exchange attributes	
Backplane bandwidth	24G
Packet buffer size	4Mbit
MAC table size	8K
Power supply	
Input power supply	12~48VDC Support dual power supply redundancy, nonpolarity and anti-reverse connection
Access terminal	4-pin 7.62mm pitch terminal block
Consumption	
IES3012G-4GS	No-load consumption: 4.85W@24VDC Full-load consumption: 10.32W@24VDC

IES3012G-8GT	No-load consumption: 4.35W@24VDC Full-load consumption: 9.56W@24VDC
Working environment	
Working temperature	-40~75℃
Storage temperature	-40~75℃
Working humidity	5%~95% (no condensation)
Protection grade	IP40 (metal shell)