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IES3020G 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. Warranty card

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

【Product Overview】

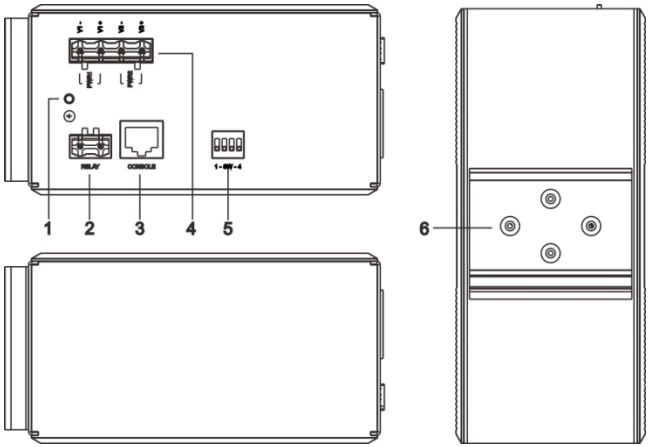
This series are full Gigabit unmanaged DIN-Rail industrial Ethernet switches. Models as follows:

Model I. IES3020G-4GS (4 Gigabit SFP + 16 Gigabit copper ports)

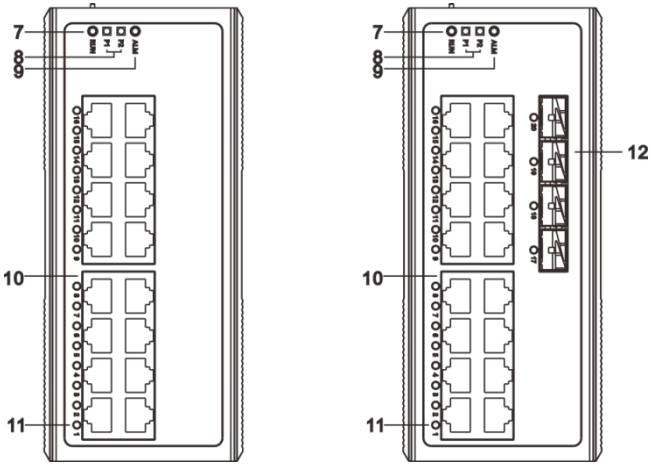
Model II. IES3020G-16GT (16 Gigabit copper ports)

【Panel Design】

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



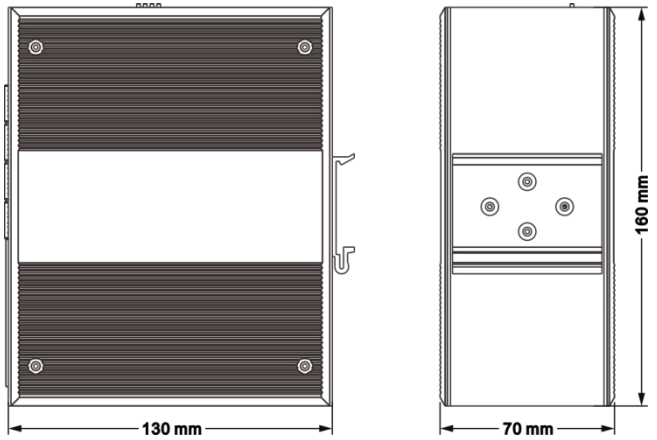
➢ **Front view**



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. Device running indicator RUN
8. Power supply input status indicator P1/P2
9. Relay alarm indicator ALM
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

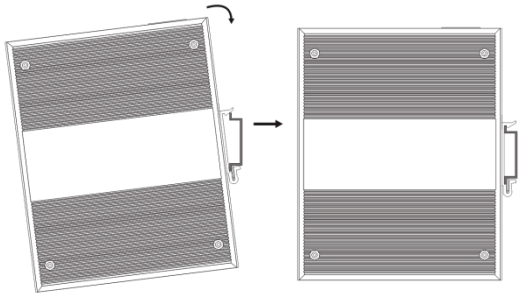


Attention before mounting:

- 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.

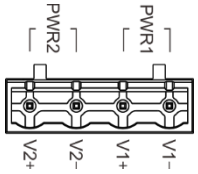
Step 2 After lift the device upward slightly, first shift out the top of DIN-Rail mounting kit, then shift out the bottom of DIN-Rail, disassembling ends.

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**



This 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

【DIP Switch Setting】



This series provide 4-pin DIP switch for function settings, among which "ON" is enable valid terminal. DIP switch definitions as follows:

1. Restart 2. Reserved 3. Reserved 4. Reserved

【Checking LED Indicator】

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

LED	Status	Description
P1	ON	PWR1 is connected and running normally
	OFF	PWR1 is disconnected and running abnormally.
P2	ON	PWR2 is connected and running normally
	OFF	PWR2 is disconnected and running abnormally
ALM	ON	Power supply link alarm
	OFF	Power supply link without 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	Blink once per second, the device is running normally.
Link/ACT (1-16/20)	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-adapting
Console port	Reserved
Alarm interface	Reserved
Indicator	Power supply indicator, running indicator, interface indicator and alarm indicator
Exchange attributes	
Backplane bandwidth	56G
Packet buffer size	12Mbit
MAC table size	16K
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 blocks
Consumption	
IES3020G-4GS	No-load consumption: 11.04W@48VDC Full-load consumption: 14.88W@48VDC
IES3020G-16GT	No-load consumption: 10.54W@48VDC Full-load consumption: 13.68W@48VDC
Working environment	
Working temperature	-40~75℃
Storage temperature	-40~85℃
Working humidity	5%~95% (no condensation)
Protection grade	IP40 (metal shell)