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MES6300 Series Layer 3 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
2. DIN-Rail mounting attachment
3. Power line (only for AC device)
4. Certification
5. 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 of product is a Gigabit layer 3 managed DIN-Rail industrial Ethernet switch. For convenience, the products of this series adopt the following number on the left in this guide, please confirm the number of your product:

Model I. MES6300-8GT4GS-2LV (8 Gigabit copper ports + 4 Gigabit SFP slots + 2 24/48VDC (18~58VDC) redundant power supply inputs)

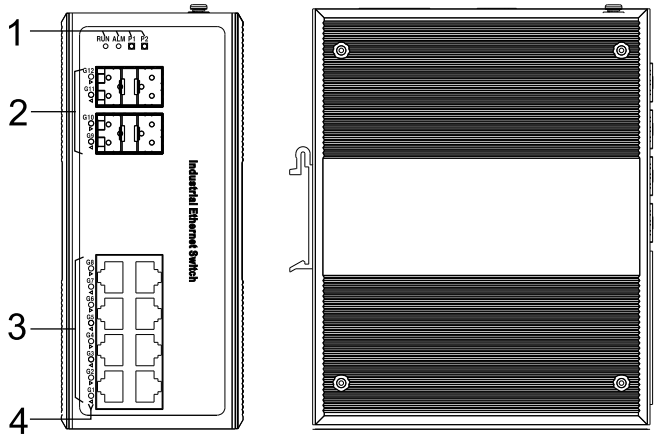
Model II. MES6300-8GT4GS-2HV (8 Gigabit copper ports + 4 Gigabit SFP slots + 2 110VDC (85~300VDC) or 220VAC (90~264VAC) power supply inputs)

Model III. MES6300-8GT8GS-2LV (8 Gigabit copper ports + 8 Gigabit SFP slots + 2 24/48VDC (18~58VDC) redundant power supply inputs)

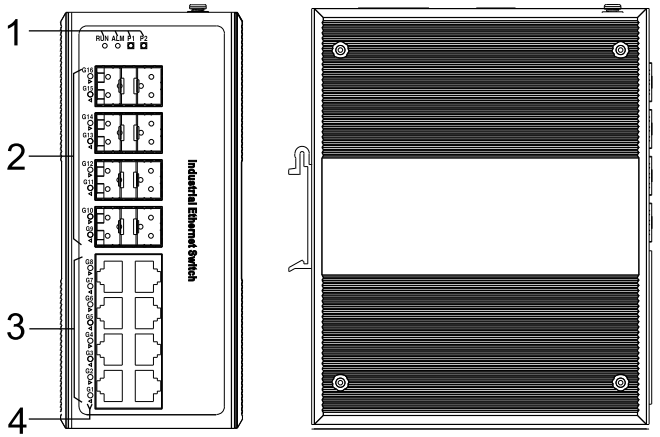
Model IV. MES6300-8GT8GS-2HV (8 Gigabit copper ports + 8 Gigabit SFP slots + 2 110VDC (85~300VDC) or 220VAC (90~264VAC) power supply inputs)

【Panel Design】

➢ **Front view and left view**

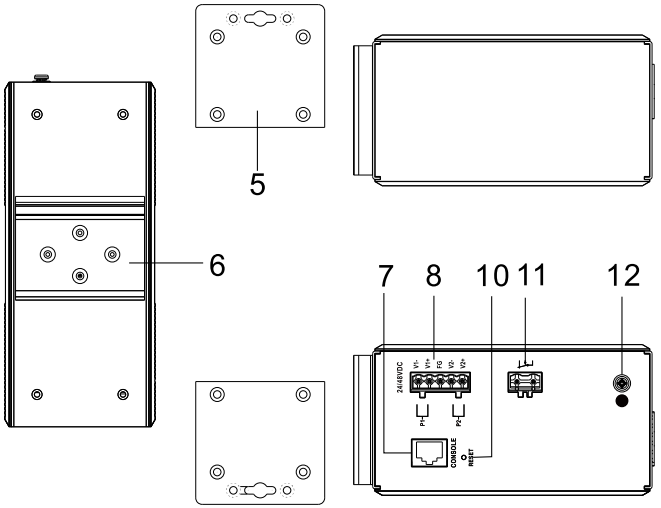


Model I, II

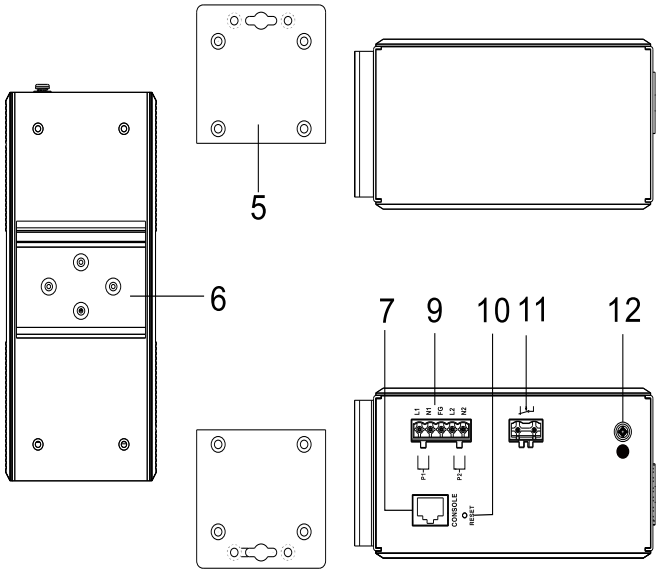


Model III, IV

➢ **Top view, bottom view, and rear view**



Model I, III



Model II, IV

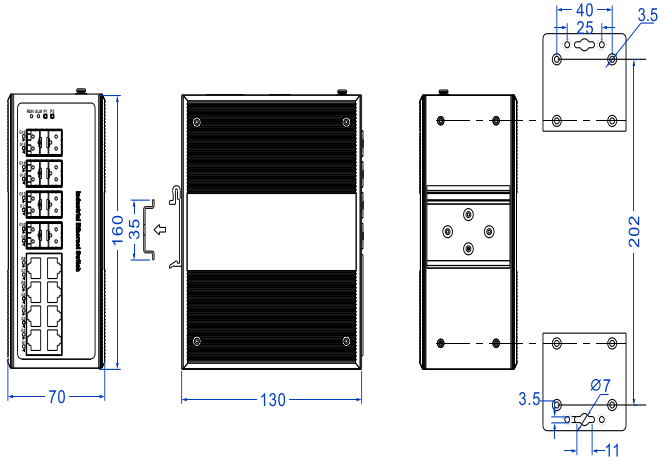
1. Indicators, from left to right in turn they are:
   - Device running state indicator (RUN)
   - Relay alarm status indicator (ALM)
   - Power input status indicator (P1/P2)
2. Gigabit SFP slot (G9-G12, G9-G16)
3. Gigabit copper port (G1-G8)
4. Ethernet port indicator (G1-G16)
5. Wall mounting board (optional)
6. DIN-Rail mounting kit
7. CONSOLE port
8. DC dual power input terminals (V1-, V1+, V2-, V2+)
9. AC single power input terminals (L1, N1, L2, N2)
10. RESET button
11. Terminal blocks for relay alarm output (RELAY)
12. Grounding screw (M4)

【Mounting Dimension】

Unit: mm

Note:

- In the figure, the right-side hanging panel are non-factory standard and need additional purchase.
- The external dimensions of this series of products are the same.

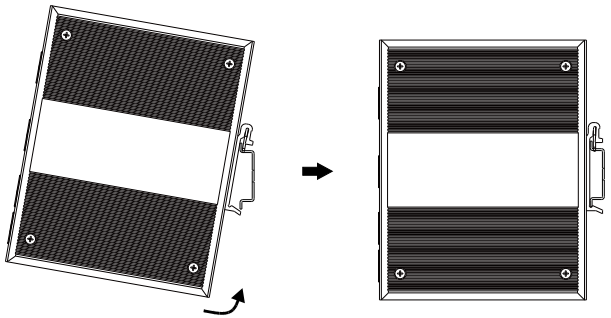


Notice Before Mounting:

- Don't place or install the device in area near water or moisture, keep the relative humidity of the device surrounding between 5%~95% without condensation.
- Before powering on the device, check the power specifications supported by the device to prevent device damage due to overvoltage.
- 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 industrial scenes, mounting steps as follows:



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.

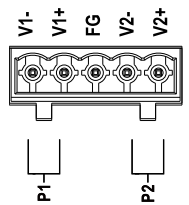
Step 2 After lifting the device upward slightly, first shift out the top of DIN-Rail mounting kit, and then shift out the bottom of DIN-Rail, disassembling ends.

Notice Before Powering on:

- Power ON operation: First insert the power supply terminal block into the device power supply interface, and then plug the power supply plug and power on.
- Power OFF operation: First, remove the power plug, then remove the wiring section of terminal block. Please pay attention to the above operation sequence.

【Power Supply Connection】

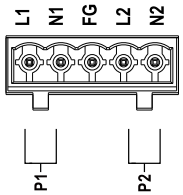
➢ **DC dual power supply**



Model I, III supports a dual DC power supply solution, utilizing a 5-pin 5.08mm pitch input terminal blocks to provide two independent DC power supply systems (P1 and P2). The terminal blocks are defined as V1-, V1+, V2-, V2+. Power supply supports anti-reverse connection, which protect the device from damage but the device cannot be powered on. The rated voltage is 24/48VDC, and the power supply range is 18~58VDC.

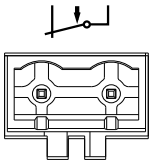
➢ **AC dual power supply**

Model II, IV supports AC dual power supply solution, providing



5-pin 5.08mm pitch input terminal blocks, and offering two independent AC power supply systems, P1 and P2, compatible with DC. The terminal blocks are defined as: L1, N1, L2, N2. The power supply supports non-polarity connection, and the equipment can still work normally after reverse connection. The rated voltage is 110VDC, 220VAC/DC, and the power supply range is 85~300VDC or 90~264VAC.

【Relay Connection】



The device supports 1 relay alarm signal output. Provide 2-pin 7.62mm pitch input terminal blocks. The relay supports the output of DC power supply alarm or network abnormality alarm. It can be connected to alarm light or alarm buzzer or other switching value collecting devices, which can timely inform operators when the alarm occurs. The default relay status is shown in the figure below.

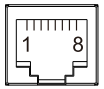
Device Status	Relay Contacts	Alarm
Not powered on or powered off	Closed	Yes
Powered on, but not working properly	Closed	Yes
Powered on, and working properly without triggering any alarm	Disconnected	None
Powered on, and working properly, but it triggered alarms	Closed	Yes

【Reset Button Setting】



The device provides 1 RESET button, press the RESET button for 5s and release it, and the device will restore the factory defaults and restart automatically.

【Console Port Connection】



Provide 1 program debugging port based on RS232 serial port which can conduct device CLI command management after connecting 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】

Provide LED indicators to monitor its operating status, which has simplified the overall troubleshooting process. The function of each LED is described in the table below:

LED	Indicate	Description
P1/P2	ON	Power is connected and running normally
	OFF	Power supply is disconnected or running abnormally
ALM	ON	Power supply or port link has alarm
	OFF	Power supply, port 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	Blinking once per second, the device is running normally.
Link/Act (G1-G16)	ON	Ethernet port has established a valid network connection
	Blinking	Ethernet port is in an active network status
	OFF	Ethernet port has not established a valid network connection

【Logging in to WEB Interface】

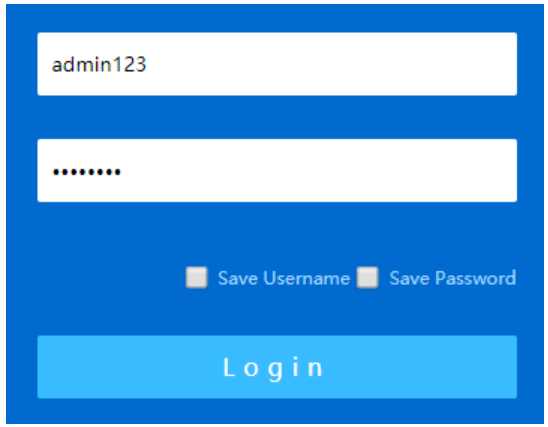
Support WEB management and configuration. Computer can access the device via Ethernet interface. The way of logging in to device's configuration interface via IE browser is shown as below:

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.

http://192.168.1.254

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 are "admin123/admin@123".
- 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	100/1000 Base-X SFP slot, auto-negotiation or forced mode
Gigabit copper port	10/100/1000Base-T(X), RJ45, Automatic Flow Control, Full/Half Duplex Mode, MDI/MDI-X Autotuning

Console port	CLI command management port (RS-232), RJ45
Alarm port	Adopt 2-pin 7.62mm pitch terminal blocks, support 1 relay alarm output, current load capability is 1A@30VDC or 2A@250VAC
Indicator	Power supply indicator, run indicator, interface indicator, alarm indicator
Switch Property	
Backplane bandwidth	128Gbps
Buffer size	12Mbit
MAC address table	16K
Power Supply	
DC power supply	24/48VDC (18~58VDC), dual power redundancy, and supports anti-reverse connection
AC power supply	110VDC (85~300VDC) or 220VAC (90~264VAC) dual power supply, support non-polarity
Access terminal block	Adopt 5-pin 5.08mm pitch terminal blocks
Power Consumption	
Model I	– No-load at normal temperature 25℃: 6.36W@48VDC – Full-load at normal temperature 25℃: 11.57W@48VDC – No-load at high temperature 75℃: 8.18W@48VDC – Full-load at high temperature 75℃: 13.60W@48VDC
Model II	– No-load at normal temperature 25℃: 5.10W@220VAC – Full-load at normal temperature 25℃: 10.81W@220VAC – No-load at high temperature 75℃: 6.82W@220VAC – Full-load at high temperature 75℃: 12.24W@220VAC
Model III	– No-load at normal temperature 25℃: 8.64W@48VDC – Full-load at normal temperature 25℃: 16.80W@48VDC – No-load at high temperature 75℃: 9.62W@48VDC – Full-load at high temperature 75℃: 18.24W@48VDC
Model IV	– No-load at normal temperature 25℃: 6.88W@220VAC – Full-load at normal temperature 25℃: 15.75W@220VAC – No-load at high temperature 75℃: 8.34W@220VAC – Full-load at high temperature 75℃: 16.74W@220VAC
Working Environment	
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.