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MES5300-24GT4GS Series Layer 2 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. Switch
2. Mounting lug x 2
3. AC power line x 2 (only for AC device)
4. Warranty card
5. Certificate

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

【Product Overview】

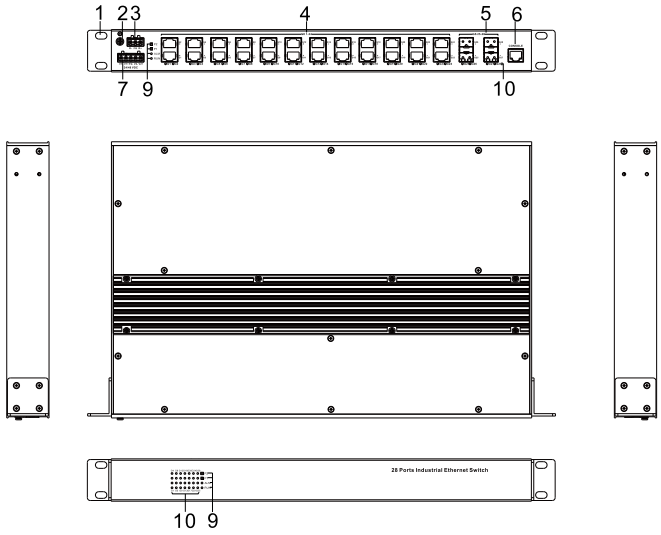
This series products are rack-mounted layer 2 managed industrial Ethernet switches. For convenience, the products of this series adopt the following number on the left in this guide, please confirm the number of your product:

Model I. MES5300-24GT4GS-2LV (24 Gigabit copper ports + 4 Gigabit SFP slots + 2 24/48VDC (18-72VDC) redundant power supply inputs)

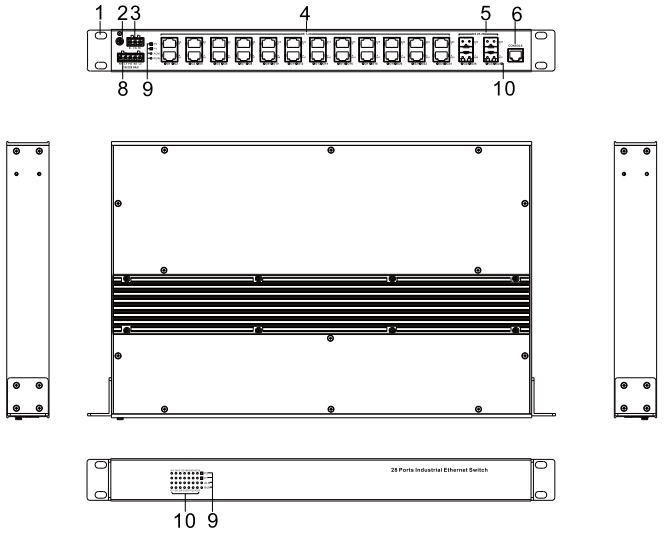
Model II. MES5300-24GT4GS-2HV (24 Gigabit copper ports + 4 Gigabit SFP slots + 2 110/220VAC/DC (85-264VAC/77-300VDC) redundant power supply inputs)

【Panel Design】

➢ **Bottom view, right view, front view, left view, and top view**

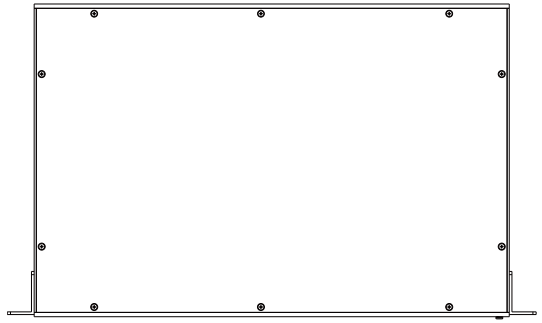


Model I



Model II

➢ **Rear View**



Model I, II

1. Lugs
2. Grounding screw (M4)
3. Relay alarm output terminal block
4. Gigabit Ethernet copper port (G1-G24)
5. Gigabit SFP slot (GS25-GS28)
6. CONSOLE port
7. DC power input terminal block
8. AC power input terminal block
9. System indicators, from top to bottom in turn they are:
   - Power supply indicator (P2-P1)
   - Alarm indicator (ALM)

— Running indicator (RUN)

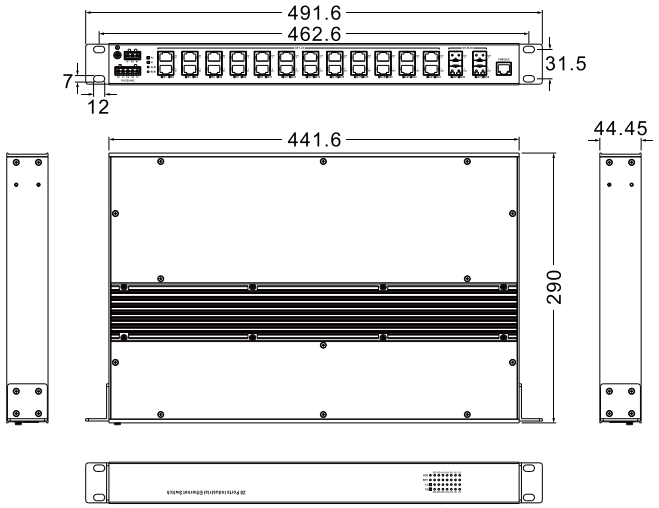
10. Interface indicator (G1-G28)

【Mounting Dimension】

Unit: mm

Note:

The external dimensions of this series of products are the same.



Notice before Mounting:

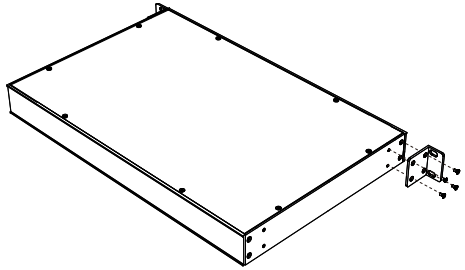
- Don't place or install the device in area near water or moisture, keep the relative humidity of the device surrounding between 5%~95% without condensation.
- Before powering on the device, check the power specifications supported by the device to prevent device damage due to overvoltage.
- The device surface temperature is high after running; please don't directly contact to avoid scalding.

【Install Rack-Mounted Device】

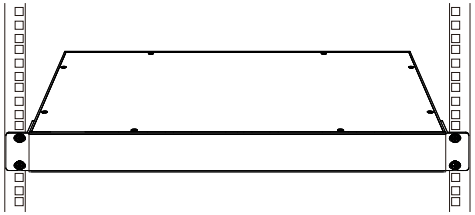
This product adopts 1U rack-mounting, mounting steps as below:

Step 1 Select the device mounting location to ensure enough size.

Step 2 Adopt 4 bolts to install the mounting lugs in the device position as figure below.



Step 3 Place the device in the rack; adopt 4 bolts to fix two sides mounting lugs in the rack.



Step 4 Check and confirm the product is mounted firmly on the rack, then mounting ends.

【Disassembling Device】

Step 1 Power off the device.

Step 2 Adopt screw driver to loosen the 4 bolts fixed on the mounting lugs in the rack.

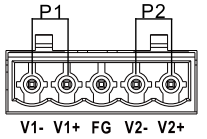
Step 3 Shift the device away from the rack, then disassembling ends.

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, and then remove the wiring section of terminal block. Please pay attention to the above operation sequence.
- Please be aware of the power input range supported by the device before powering on. Use the recommended voltage of the device to avoid device damage.

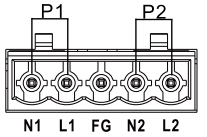
【Power Supply Connection】

➢ **DC device power supply**



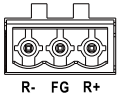
Model I provides 5-pin 5.08mm pitch terminal blocks, and support P1 and P2 DC redundant power inputs. The power input supports 1 single power supply input or 2 power supply inputs at the same time; When two power supply input at the same time, it supports redundant backup of power supply. If one power supply fails, the device can still work normally without interruption. The power supply supports non-polarity connection, and the device can still work normally after reverse connection. The definitions of power pin are shown in the left figure, and the power input range is 24VDC/48VDC (18~72VDC).

➢ **AC device power supply**



Model II provides 5-pin 5.08mm pitch terminal blocks, and support P1 and P2 AC redundant power inputs. The power input supports 1 single power supply input or 2 power supply inputs at the same time; When two power supply input at the same time, it supports redundant backup of power supply. If one power supply fails, the device can still work normally without interruption. The definitions of power pin are shown in the left figure, and the power input range is 110/220VAC/DC (85-264VAC/77-300VDC).

【Relay Connection】

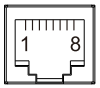


Provide 3-pin 5.08mm pitch terminal block, support 1 relay alarm output. The relay supports the output of DC power supply alarm or network abnormality alarm. It can be connected to alarm light or alarm buzzer or other switching value collecting devices, which can timely inform operators when the alarm 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

Device Status	Relay Contacts	Alarm
Powered on, and working properly without triggering any alarm	Disconnected	None
Powered on, and working properly, but it triggered alarms	Closed	Yes

【Console Port Connection】



Provide 1 program debugging port based on RS-232 serial port which can conduct device CLI command management after connecting to PC. The interface adopts RJ45 port, the RJ45 pin definition 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:

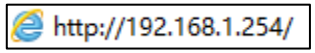
LED	Indicate	Description
P1/P2	ON	Power P1/2 is running normally
	OFF	Power P1/2 is disconnected or running abnormally
ALM	ON	Power supply link has alarm
	OFF	Power supply link has no alarm
RUN	ON	The device is running abnormally
	Blinking	Blinking 1 time per second, system is running normally
	OFF	The device is powered off or the device is abnormal.
Link/Act (G1-G28)	ON	Ethernet port has established a valid network connection
	Blinking	Ethernet port is in an active network status
	OFF	Ethernet port has not established valid network connection

【Logging in to WEB Interface】

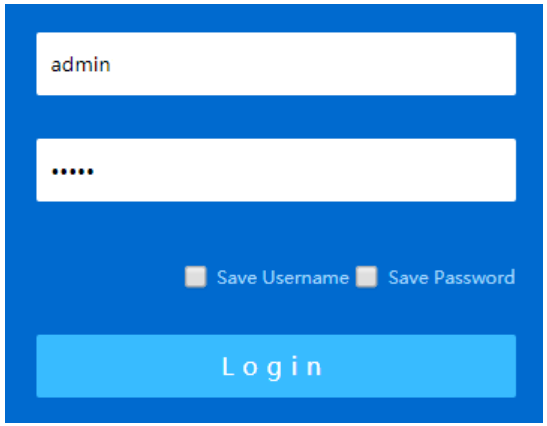
Support WEB management and configuration. Computer can access the device via Ethernet interface. The way of logging in to device's configuration interface via IE browser is shown as below:

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.



Step 3 Enter device's username and password in the login window as shown below.



Step 4 Click "Login" 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 "admin".
- If the username or password is lost, user can restore it to factory settings via 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 copper port	10/100/1000 Base-T(X) self-adapting RJ45 port, half/full duplex self-adaption or forced working mode, support MDI/ MDI-X self-adaption
Gigabit SFP	1000Base- X, SFP slot
Relay	Support 1 relay alarm output, adopt 3-pin 5.08mm pitch terminal blocks, current carrying capacity is 3A@250VAC or 3A@30VDC
CONSOLE	CLI command line management port (RS-232), RJ45
Indicator	Power indicator, running indicator, alarm indicator, interface indicator
Switch Property	
Backplane bandwidth	56G
Cache size	4.1Mbit
MAC address table	8K
Power Supply	
Model I	24VDC/48VDC (18~72VDC), dual power supply redundancy, support non-polarity
Model II	110/220VAC/DC (85-264VAC/77-300VDC), dual power supply redundancy
Connection mode	Adopt 5-pin 5.08mm pitch terminal blocks
Power Consumption	
Model I	No-load: 7.3W@48VDC Full-load: 22W@48VDC
Model II	No-load: 8.5W@220VC

	Full-load: 22.6W@220VAC
Working Environment	
Working temperature	-40~85℃
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.