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MES6400PHR-8GT4XS Series Layer 2 Managed Industrial Ethernet Switch Quick Installation Guide

3onedata Co., Ltd.

Address: 3/B, Zone 1, Baiwangxin High Technology Industrial Park, Xili, Nanshan District, Shenzhen

Website: www.3onedata.com

Tel: +86 0755-26702688

Fax: +86 0755-26703485

【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】

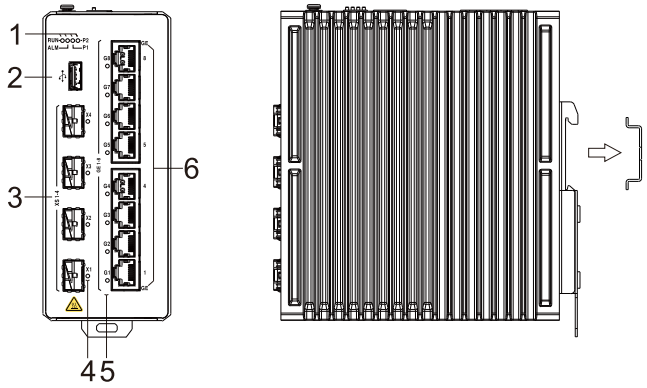
This series products are managed Gigabit/10Gigabit DIN-Rail industrial Ethernet switches. For convenience, the products of this series adopt the following number on the left in this guide, please confirm the number of your product:

Model I. MES6400PHR-8GT4XS-2LV (8 Gigabit copper ports + 4 10G SFP slots + 24/48VDC redundant power supply).

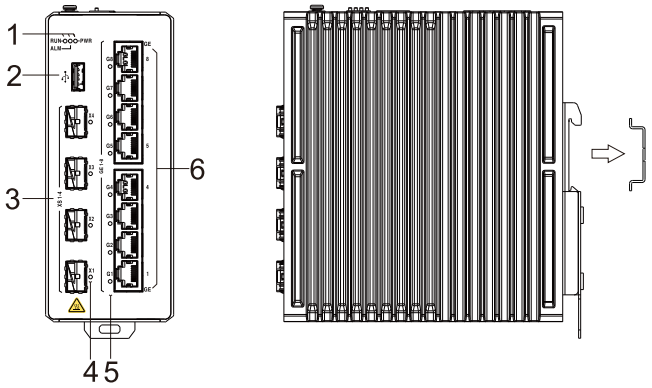
Model II. MES6400PHR-8GT4XS-HV (8 Gigabit copper ports + 4 10G SFP slots + 110VDC or 220VAC/DC).

【Panel Design】

➢ **Front view and side view**

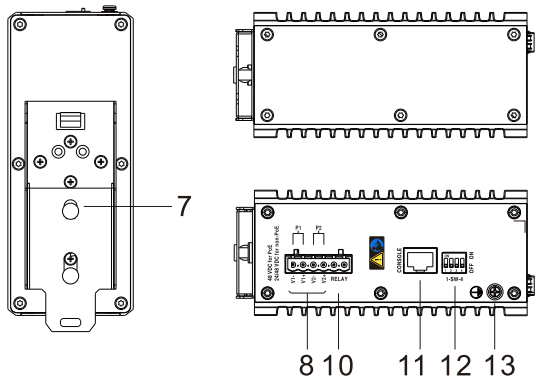


Model I

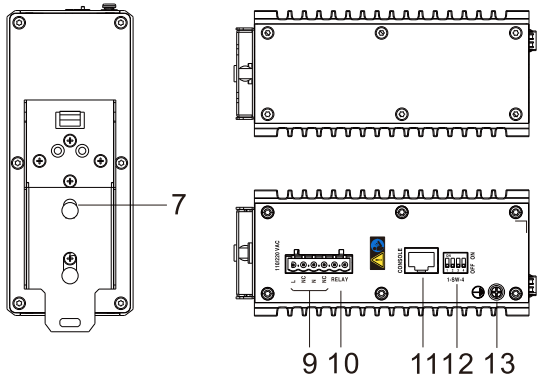


Model II

➢ **Rear view, bottom view and top view**



Model I



Model II

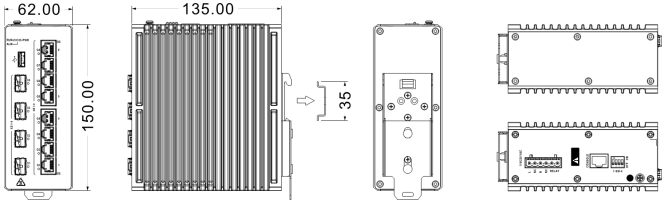
1. Indicators, from left to right in turn they are:
   - Running Indicator(RUN)
   - Alarm Indicator(ALM)
   - Power Supply Indicator (DC: P1-P2; AC: PWR)
2. USB interface
3. 10Gigabit SFP slot (X1-X4)
4. 10Gigabit SFP indicator (X1-X4)
5. Gigabit copper port indicator (G1-G8)
6. Gigabit copper port (G1-G8)
7. DIN-Rail mounting kit
8. Terminal blocks for DC power input (P1, P2)
9. Terminal blocks for AC power input (L, N)
10. Terminal blocks for relay alarm output (RELAY)
11. CONSOLE port
12. DIP switch (1-SW-4)

13. Grounding screw (M4)

【Mounting Dimension】

Unit: mm

Note: all products in this series have the same size.

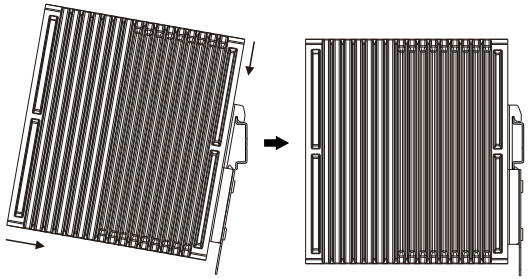


Notice Before Mounting:

- 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 Clip the upper part of the DIN-Rail mounting kit, i.e. the fixed side, into the DIN rail.

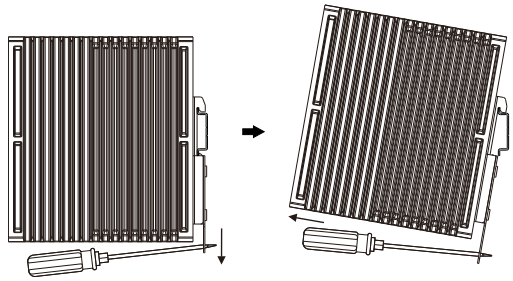
Step 3 Press the lower side of the device and insert the lower part of DIN-Rail mounting kit (the side with spring support) into DIN-Rail.

Tips:

The DIN-Rail spring support is a metal sheet that can move up and down, and there will be a sound after it is clamped in.

Step 4 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 Use a slot type screwdriver or other tools to move the DIN rail spring support downward; At the same time, move the lower side of the device outward and move out the lower part of the DIN rail mounting kit.

Step 3 Lift the device upward slightly, move out the upper part of DIN-Rail mounting kit. Disassembling ends.

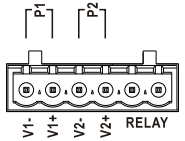
Notice Before Powering on:

- 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】

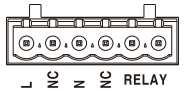
➢ **Low-voltage input: Model I**

Model I provides 6-pin 5.08mm pitch terminal blocks and



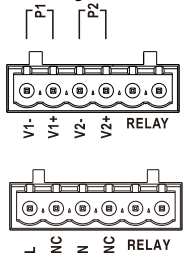
power supply occupies the left 4 pins. It supports two independent DC power supply systems, P1 and P2. The power input supports 1 power supply alone or 2 power supply at the same time; When two power supply input at the same time, it supports redundant backup of power supply. If one power supply fails, the device can still work normally without interruption. Power supply supports anti-reverse connection, which cannot power the device but won't damage it when it's reversely connected. The definitions of power pin are shown in the left figure, and the power input range is 24/48VDC (18~60VDC).

➢ **High-voltage input: Model II**



Model II provides 6-pin 5.08mm pitch terminal blocks and power supply occupies the left 4 pins, and 1 power supply system. The definitions of power pin are shown in the left figure, and the power input range is 110VDC or 220VAC/DC (85~264VAC/110~300VDC).

【Relay Connection】



This series device provides 6-pin 5.08mm pitch terminal blocks, RELAY occupies the right 2 pins. Relay terminals are a set of normally open contacts of the device alarm relay. They are open circuit in the state of normal non alarm, closed when any alarm information occurs. For example, they are closed when Model I is powered off, and send out alarm. 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.

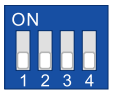
【USB Interface】



This series of devices provides a USB2.0 Type-A(Female) interface. The USB interface can be connected to a USB flash drive to download logs and configuration files, upload configuration files, or upgrade

software package. For specific operations, please refer to the appendix of the user manual.

【DIP Switch Settings】

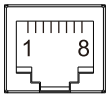


The series of devices provide 4-bits DIP switch for function setting, where "ON" is enable valid terminal.

The definitions of DIP switch are as follows:

No.	Definition	Operation
1	Reboot or restore factory settings	Set the switch to “ON” - hold for more than 1 second, and then dial back to restart the device; - Hold for more than 5 seconds, and then dial back, the device would restore factory settings and automatically restart.
2-4	Reserved	—

【Console Port Connection】



The series of device provides 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】

The series of devices 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:

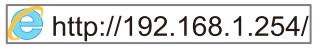
LED	Indicate	Description
P1-P2 / PWR	ON	Power supply is running normally
	OFF	Power supply is disconnected or running abnormally
RUN	ON	Device is not started or abnormal
	Blinking	Blinking 1 time per second, system is running normally
	OFF	The device is powered off or the device is abnormal.
ALM	ON	Power supply or port link has alarm
	OFF	Power supply, port link without alarm
LINK (X1-X4/G1-G8)	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】

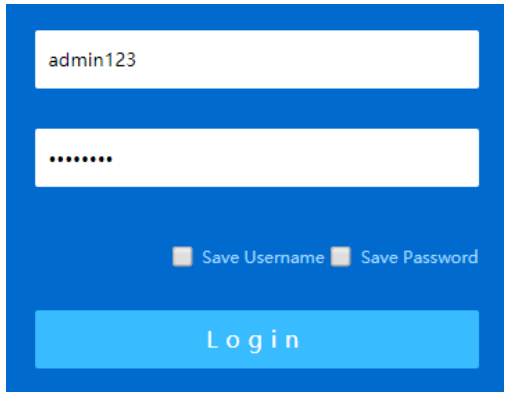
This series of devices supports WEB management and configuration, and computers can access devices through Ethernet interfaces. The way of logging in to device’s configuration interface via IE browser is shown as below:

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 the “login” button. Change the initial password when logging into the device for the first time, after that, relog into the device's Web interface.

Note:

- The default IP address of the device is “192.168.1.254”.
- The default username and password of the device is “admin123”.
- If the username or password is lost, user can restore it to factory settings via device DIP switch or management software.
- 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	10/100/1000Base-T(X) self-adaption, RJ45, full/half duplex, MDI/MDI-X self-adaption
10Gigabit SFP slot	1G/2.5G/5G/10G Base-X self-adaption or forced mode, SFP+ slot

USB interface	USB2.0 Type-A(Female), download logs and configuration files, or upload configuration files
Console port	CLI command management port (RS-232), RJ45
Alarm port	6-pin 5.08mm pitch terminal blocks, the alarm occupies 2 pins, support 1 relay alarm information output, the current load capacity is 1A@30VDC or 0 3A@125VAC
Indicator	Running Indicator, Alarm Indicator, Power Supply Indicator, Interface Indicator
Switch Property	
Backplane bandwidth	96Gbps
Cache size	3Mbit
MAC address table	32K
Power Supply	
Model I	24/48VDC (18~60VDC), support anti-reverse connection and dual power supply redundancy
Model II	110VDC or 220VAC/DC (85~264VAC/110~300VDC)
Access terminal block	6-pin 5.08mm pitch terminal blocks (power supply occupies 4 pins)
Power Consumption	
Model I	No-load: 7.4W@48VDC Full-load: 14.6W@48VDC
Model II	No-load: 7.4W@220VAC Full-load: 14.6W@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.