MaIWe

Industrial Ethernet Switch

User manual

MIEN3020G-4GC-16GT

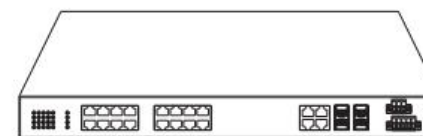MIEN3028G-4GC-24GT

The package of this switch contains the following items. If any item is found to be missing or damaged, please contact the agent or the customer service center of Maiwe for assistant.
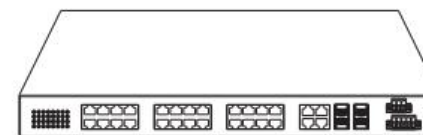
Items	Quantity	Remarks
Industrial Ethernet Switch	1PCS	
Power cord	1PCS	AD220 model only
User Manual	1PCS	

2 **Product description**

This series isThis switch is an unmanaged rack-mount industrial Ethernet switch.MIEN3020G-4GC-16GT(4 Gigabit Combo ports+16 Gigabit RJ45 ports), MIEN3028G-4GC-24GT provides 28 ports (4 Gigabit combo ports+24 Gigabit RJ45 ports).
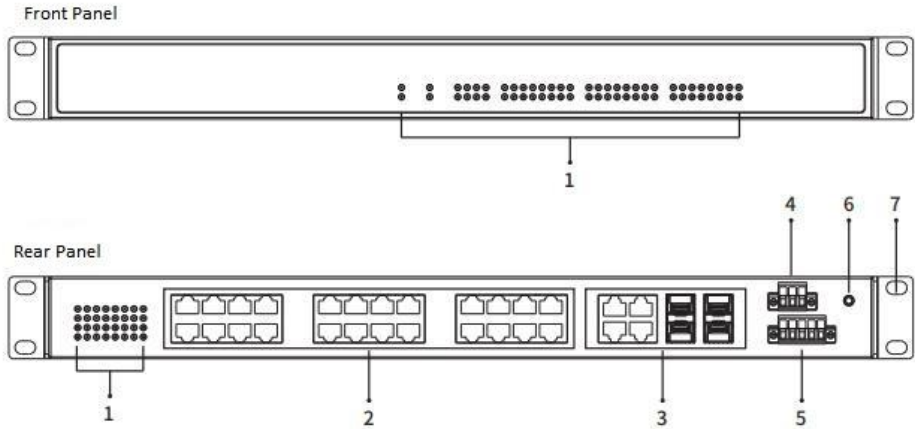

MIEN3020G-4GC-16GT

MIEN3028G-4GC-24GT

Unit:mm

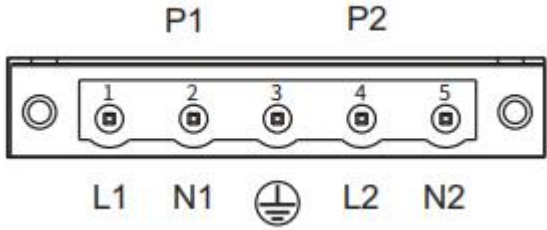Take MIEN3028G-4GC-24GT as a example:

Front Panel

Rear Panel

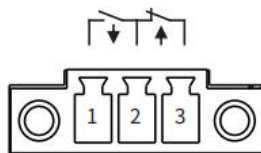| 1. Indicator lights	5.Power input terminal
2.Gigabit RJ45 port	6. Ground screw
3. Gigabit combo port	7. Rack mounting ears
4. Relay alarm output terminal	

[Connect the power]

The switch supports AD220V single power input, using 5-position locking terminals with 5.08mm pitch.

P1   P2

L1   N1   ⏚   L2   N2

Number	Pin definition
1	Power 1 Input V1+(AC-L)/Positive(DC)
2	Power 1 Input V1-(AC-N)/Negative (DC)
3	Grounded
4	Power 2 Input V2+(AC-L)/Positive(DC)
5	Power 2 Input V2-(AC-N)/Negative (DC)

[Connect to the relay]

This series of switches supports the relay alarm function, and the wiring terminals use 3-position 5.08mm pitch terminals. This relay is a normally open and a normally closed relay, the middle one is the common terminal, the left two terminals are normally open relays, and the right two terminals are normally closed relays. When the switch is working normally, the normally open relay is powered and closed, and the normally closed relay is disconnected. The recommended switching load capacity of the relay is 1A (24VDC).
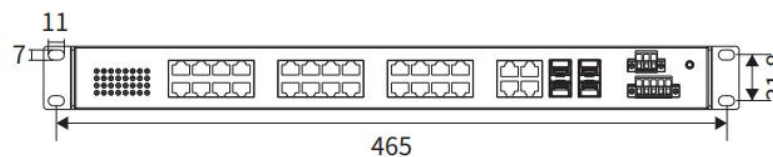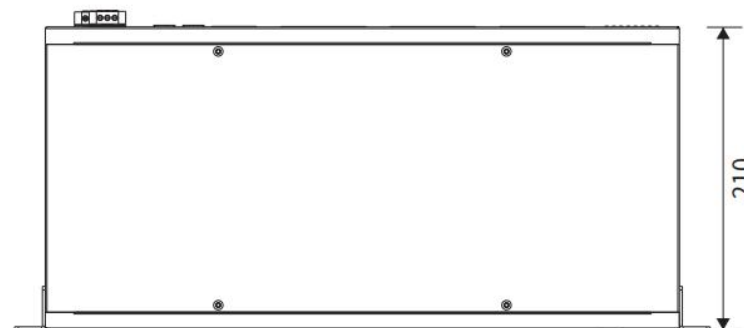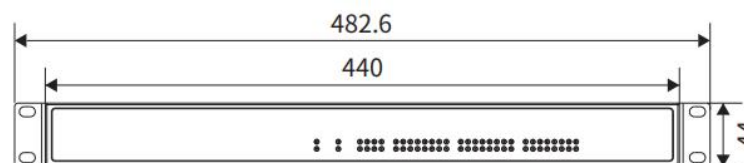
ALARM

Number	Pin definition
1	Alarm relay output normally open
2	Alarm relay output common terminal
3	Alarm relay output normally closed

The switch indicator lights description is shown in the table below:

Indicator lights	Status	Definition
System Status LED		
PWR1/PWR2	On	The power is connected and operating normally
	Off	The power is not connected or the system is not operating normally
RUN	Flashing	The system is operating normally
	On/Off	The system is not working properly
ALM	On	Device power failure alarm, port offline alarm, network storm alarm
	Off	Device no alarm
Ethernet Port Status LED **(Front panel network port indicator)**		
1G(Yellow)	On	1G working status
	Off	10M or 100M working status
RJ45 Port Status LED		

	On	The port has established a valid network connection
Link/Act (Green)	Flashing	There is network activity on the port
	Off	No valid network connection is established on the port
Real panel network port indicator		
1-28	On	The port has established a valid network connection
	Flashing	There is network activity on the port
	Off	No valid network connection is established on the port

[Installation Size]

4 ▶ Hardware Installation

⚠ Installation Precautions

To prevent equipment damage or personal injury caused by improper use, observe the following precautions:
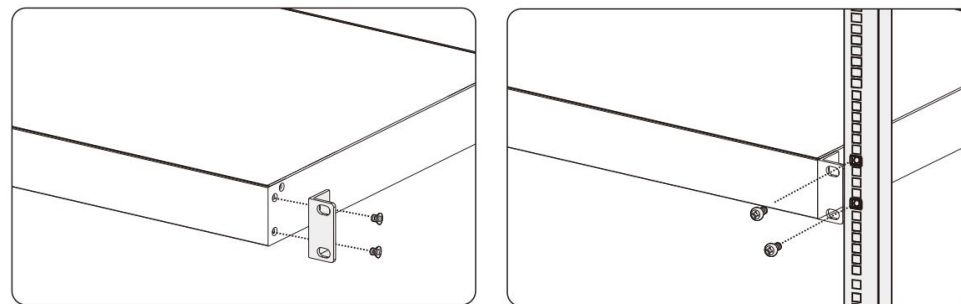
➢ During the installation process, you need to wear anti-static gloves or anti-static gloves, and power-off the switch.

➢ Please make sure that the input voltage is within the input voltage range marked on the switch.

➢ The transmission distance has a certain relationship with the connected wire. It is recommended to use a standard Cat5e/6 network cable.

➢ The equipment must be grounded for lightning protection, otherwise the protection level of the equipment will be greatly reduced; please use a wire of No.20 or more to connect the grounding terminal to the ground.

➢ The power line, ground line and signal line are laid out separately and the distance is not less than 5cm.

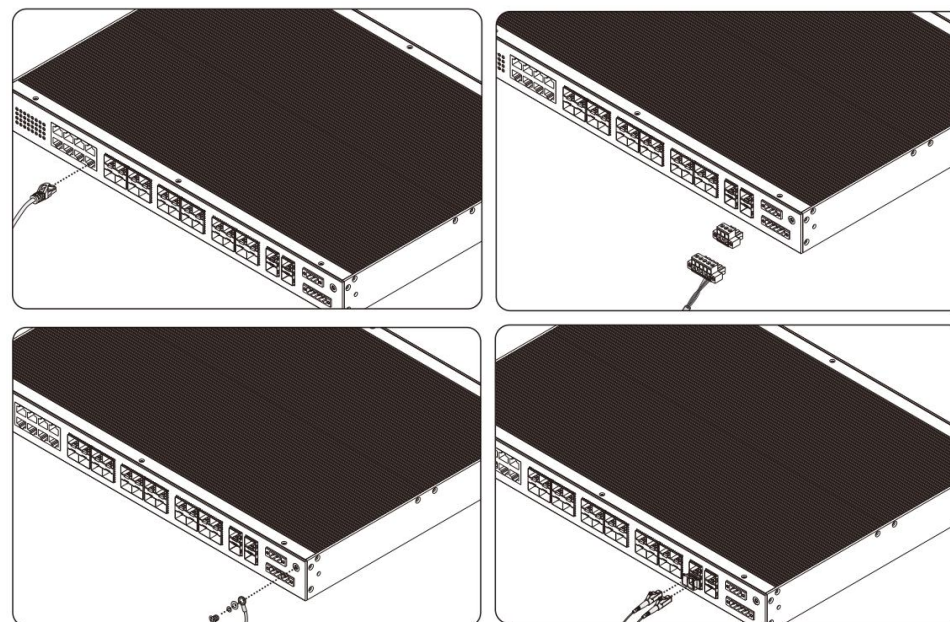### [Device installation]

Install rack-mounted equipment

Rack-mounted installation, the installation steps are as follows:

➢ Step 1 Select the installation location of the device and make sure it has sufficient size.

➢ Step 2 Use 2 screws to install the mounting ear to the position of the device as shown in the figure below.

➢ Step 3 Put the device on the rack, and use 4 screws to fix the left and right side brackets to the rack respectively.

➢ Step 4 Check and confirm that the product is securely installed on the rack, and the installation is complete.

[Device connection]

➢ Step 1 Connect one end of the ground wire to a suitable position, and fix the ground plate on the switch panel with washers and screws.

➢ Step 2 Connect the power cord to the switch's power terminals.

➢ Step 3 Connect the network cable to the RJ45 port of the switch.

➢ Step 4 Insert the SFP optical module into the SFP port and connect the fiber-to-fiber transceiver.

5 Specifications

	MIEN3020G-4GC-16GT	MIEN3028G-4GC-24GT
Switch properties		
Bandwidth	56Gbps	
Cache size	4.1Mbit	
MAC table	8K	
Interface		
Gigabit SFP port	1000Base-X	
	SFP slot	
Gigabit RJ45 port	10/100/1000Base-TX RJ45 ports	
	Full-duplex/half-duplex adaptive, supports MDI/MDI-X adaptive	
Power supply		
Consumption	24W(MAX)	
AC power input	Standard AC85~264V (frequency: 47~63Hz) or DC110~370V (Dual power is optional)	

Mechanical	
Size	482.6mm×44mm×210mm（L×W×H）
Installation	19'1U standard rack mount
Heat	Aluminum alloy single-rib chassis surface scattered
IP protection	IP40
Weight	About3kg
Working environment	
Working Temp.	-40℃~+75℃
Storage Temp.	-40℃~+85℃
Humidity	5%~95%(No condensation)
Industry Standard	
EMC	IEC61000-4-2(ESD), Level 4
	IEC61000-4-5(Surge), Level 4
	※Ethernet ports support 6KV lightning protection
	IEC61000-4- 4(EFT), Level 4
	IEC61000-4-3(RS), Level4
	IEC61000-4-6(CS), Level4

6 ▶ Order guide

Item	Gigabit Combo ports	Gigabit RJ45 ports	Power
MIEN3020G-4GC-16GT	4	16	AC85~264V (freq.: 47~63Hz) or
MIEN3028G-4GC-24GT	4	24	DC110~370V (Dual power is optional)

7 ▶ Pledge

Thank you for purchasing Maiwe products. You will enjoy the following services when using Maiwe products.

We solemnly promises: under normal use, one month's return, one-year free maintenance, five-year warranty, and lifetime maintenance. The specific details are as follows:

➢ If Maiwe products have quality problems and cannot work normally, they will be refunded for one month, free maintenance for one year, warranty for five years, and maintenance for life.

➢ If the number of repaired products is less than 10, the repair service will be completed within 7 days (excluding transportation time), and the repair service will be completed within one month for more than 10 sets.

➢ Optical passive products such as optical fibers, optical cables, jumpers, flanges, and optical cable terminal boxes are guaranteed within two years, but no return service is provided.

➢ The accessories and power supply that come with the product are guaranteed for one year.

➢ When sending the product back to Maiwe for repair, it is recommended that the customer use the original packaging or the packaging with the same protective effect, otherwise the customer shall bear the risks that occur during the transportation.

➢ The repaired product can enjoy another 6 months warranty service.

➢ The product after-sales service is detailed in the purchase and sale contract, and Maiwe has the final interpretation right of this descriptio

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🖹 Statement

Due to the continuous updating and improvement of products and technologies, the contents of this manual will be updated from time to time. All the information in the manual is only used for instructions, if the content in the text does not completely match the actual product, please understand and please contact our customer service in time.