

Maiwe

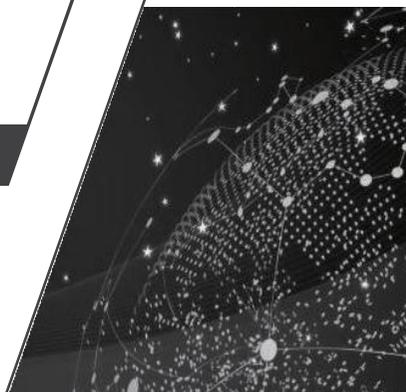
Industrial Ethernet Switch

User manual

MIEN2208-F

MIEN2208-2F

MIEN2208-4F



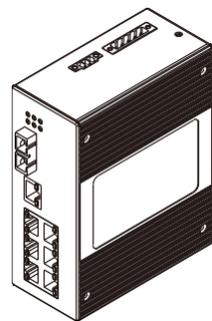
1 Packing list

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 customerservice center of Maiwe for assistant.

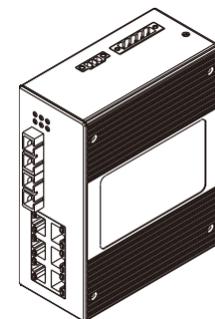
Items	Quantity	Remarks
Industrial Ethernet Switch	1PCS	
Power cord	1PCS	AD220 model only
User Manual	1PCS	

2 Product description

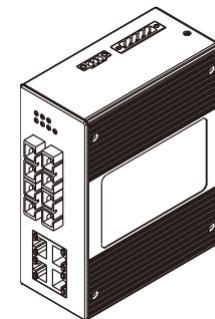
The switch is a unmanaged din-rail industrial Ethernet switch. MIEN2208 series provides 8 100M Ethernet interfaces. Among them, MIEN2208-F (1 100M fiber and 7 100M copper ports), MIEN2208-2F (2 100M fiber and 6 100M copper ports), MIEN 2208-4F (4 100M fiber and 4 100M copper ports).



MIEN2208-F



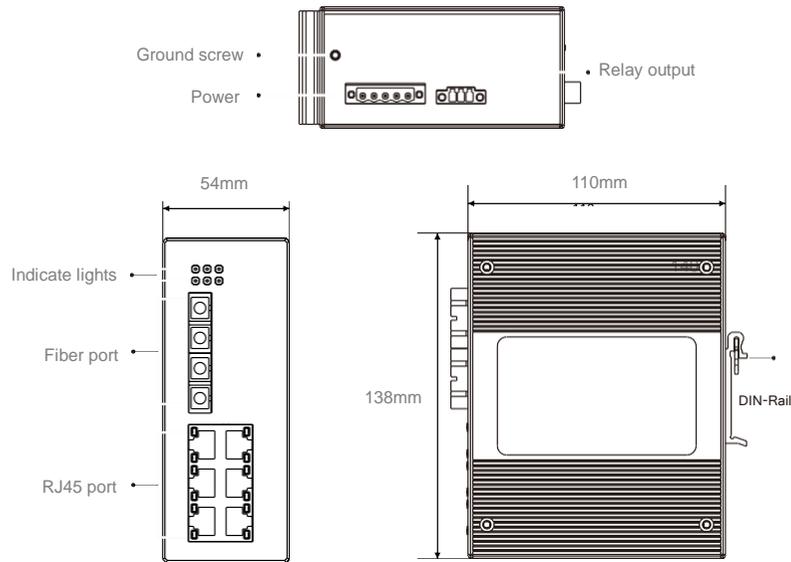
MIEN2208-2F



MIEN2208-4F

3 Interface description

Take MIEN2208-2F as an example.



Item	Description
Ground screw	Crimp one end of the grounding screw with the cold-pressed terminal. The other end of the grounding wire is connected to the ground, and the grounding wire is not less than 2.5mm ²
Power interface	Support Dual DC12-48V or DC48V(36-72V). Support single power input AC85-264V or DC110-370V.
Relay output interface	Relay alarm output function; this relay is a normally open and one normally closed relay, the middle one is the common terminal, the two left terminals are normally open relays, and the two right two terminals are normally closed relays. When the switch works normally, the normally open relay is energized and closed, and the normally closed relay is disconnected. When the system is powered down, the normally open relay is powered off and the normally closed relay is closed. The recommended switching load capacity of the relay is 1A (24VCD).

Ethernet RJ45 port	Supports automatic MDI/MDI-X connection. You can connect the switch to terminal devices, servers, hubs, or other switches.
Fiber port	The 100M fiber port is a 100Base-FX full-duplex single-mode or multi-mode fiber connector, which support single-fiber or dual-fiber connectors, and the connector can be SC, ST or FC. The optical fiber connectors must be used in pairs (TX and RX are a pair).
Din-rail kit	To fix the switch.

The indicator description of the switch is shown in the following table.

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 (some models are always on to indicate normally)
	Off	The system is not working properly
Fiber Port Status LED		
LINK	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
RJ45 Port Status LED		
Each RJ45 port has two indicator lights, the yellow light is the port plastic rate indicator, the green light is the port connection status indicator.		
10/100M (Yellow)	On	100M working state (namely 100Base-TX)
	Off	10M working status (namely 10Base-T)
Link/Act (Green)	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

4 Hardware installation

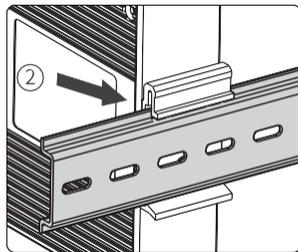
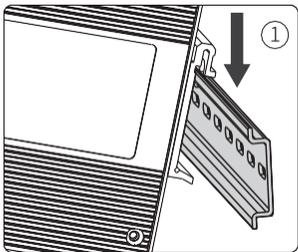
! Installation Precautions

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

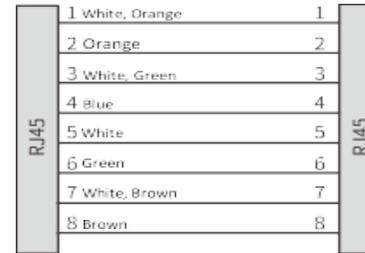
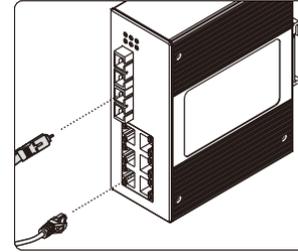
- Tilt the switch upwards so that the upper end of the buckle is fastened to the upper end of the DIN rail.
- The lower end of the back buckle is buckled into the DIN rail.



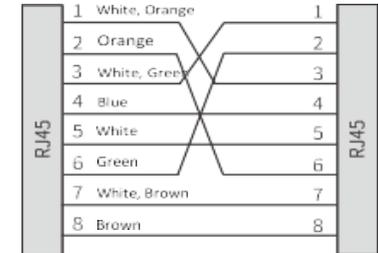
Device connection

➤ Network cables connection

Connect the optical fiber and network cable to the port in the correct



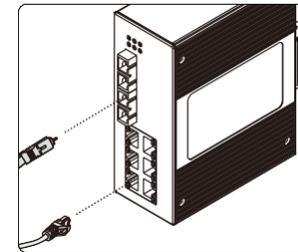
Category5 direct connection



Category5 crossover connection

➤ Optical fiber connection

Connect the optical fiber to the corresponding optical fiber interface. The optical fiber interface is used in pairs (TX and RX as a pair), TX is optical receiver, RX is optical sender.

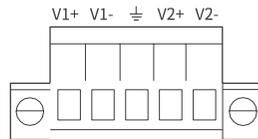
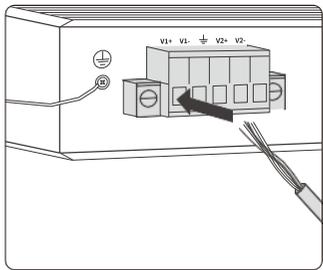


⚠ Warning

1. Signals were transmitted by laser through optical fiber. The laser meets the requirement of class I, no harm with normal operation. Do not look directly into the fiberport and the end of the optical fiber terminator.
2. Dust plugs need to be installed when optical connectors and optical modules are not in use. Dust caps need to be installed when optical fibers are not in use.
3. The bending radius of optical fiber should be greater than 20 times the diameter of the optical fiber. In general, the bending radius should be equal to or greater than 40mm.

➤ Power input

Before connecting the power cord, make sure that the ground is connected. Do connect the power cord to the power terminal of the device according to the definition.



💡 Notes

1. When using a switch, the voltage can only be input from V1+ and V1-, V1+ connects to live wire L, and V1- to neutral wire N. Do not connect from V2+, V2-; pay attention to safety and prevent electric shock.
2. Power-on operation: First connect the power cord to the power terminal of the device according to the definition shown in the figure above, and then power on.
3. Power-off operation: first unplug the power plug, and then remove the power cord.

5 Specifications

	MIEN2208-F	MIEN2208-2F	MIEN2208-4F
Switch performance			
Backplane bandwidth	1.6G		
Cache size	768Kbit		
MAC address	2K		
Interface			
100Base-FX port	1*100Base-FX	2*100Base-FX	4*100Base-FX
	Connector SC/FC/ST optional		
100Base-TX port	7*10 /100Base-TX RJ45 ports	6*10 /100Base-TX RJ45 ports	4*10/100Base-TX RJ45 ports
	With adaptive function, support MDI/MDI-X connection		
Power			
Power consumption	<5W@24V full load		
DC input	Support dual DC12~48V or DC48V (36-72V) power supply		
AC input	AC85~264V (frequency: 47~63Hz) or DC110~370V		
Mechanical			
Size	138mm×54mm×110mm(H×W×D)(Excluding DIN rail)		
Installation method	35mm standard DIN rail installation		
Heat dissipation form	Aluminum alloy single-rib chassis surface heat dissipation, no fan.		
Weight	About 0.67kg		
IP protection	IP40		
Working environment			
Operating temp.	-40 ~ +85°C		
Storage temp.	-40 ~ +85°C		
Humidity	5 ~ 95% (No condensation)		
Industry standard			
EMC	IEC61000-4-2(ESD), Level4 IEC61000-4-5(Surge), Level4 IEC61000-4-4(EFT), Level4		

	IEC61000-4-3(RS), Level4 IEC61000-4-6(CS), Level4 ※The network port supports 6KV lightning protection
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6 Order guide

Model	100Base-FX	100Base-TX	Power
MIEN2208-F	1	7	DC power supply: DC12~48V or DC48V (36~72V) optional AC power supply: AC85~264V(Freq.:47~63Hz) or DC110~370V
MIEN2208-2F	2	6	
MIEN2208-4F	4	4	

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 description.

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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.

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