

Industrial Ethernet Switch

User manual

MIGE1203G-GF-2GT

MIGE1203G-DB9-GF-2GT

MIGE2205G-5GT

MIGE2205G-GF-4GT



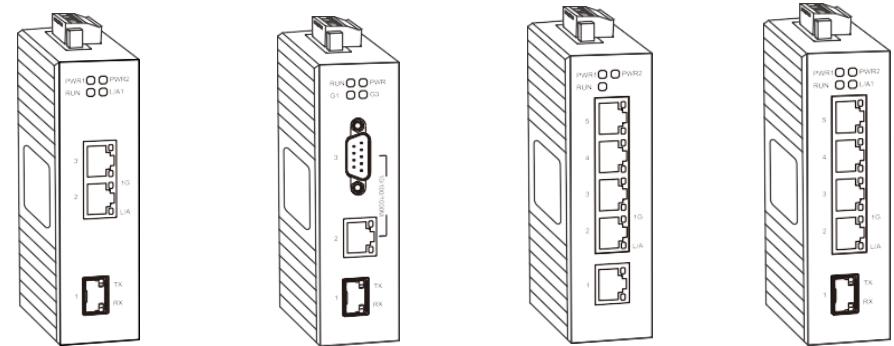
1 ► Packing list

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 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

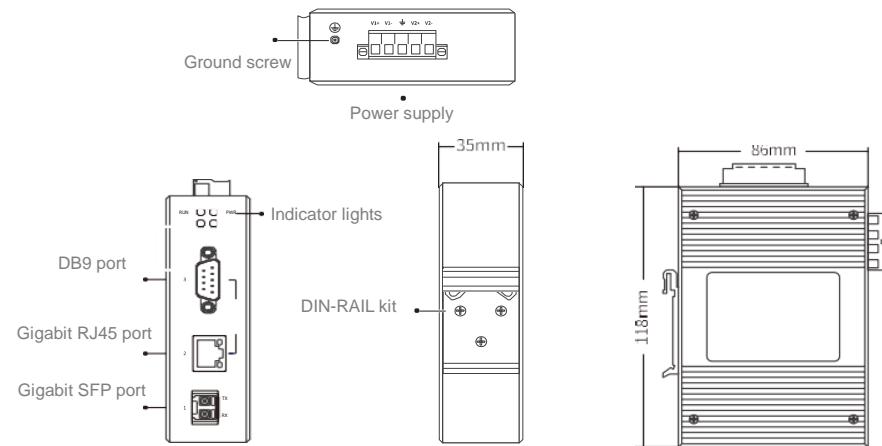
This series switch is 100M full Gigabit unmanaged din-rail industrial Ethernet switch, MIGE1203G with 3x Gigabit ports (1x Gigabit fiber ports and 2x Gigabit copper ports); MIGE2205G series with 5x Gigabit ports (1x Gigabit fiber ports and 4x Gigabit copper ports/5x Gigabit copper ports).



MIGE1203G-GF-2GT MIGE1203G-DB9-GF-2GT MIGE2205G-5GT MIGE2205G-GF-4GT

3 Interface description

Take MIGE1203G-DB9-GF-2GT 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 DC48 (36~72V). Support single power input AC85-264V or DC110-370V.
Ethernet RJ45 port	Supports automatic MDI/MDI-X connection. You can connect the switch to terminal devices, servers, hubs, or other switches.
Fiber port	Gigabit fiber port could be SFP slot or DB9 port.
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		
PWR	On	Power is connected and operating normally
	Off	The power is unconnected or the system is abnormal
RUN	Blinking	System operates normal
	Off	System operates abnormal
Fiber Status LED		
L/A1/G1	On	The port has established a valid network connection
	Blinking	The port has network activity
	Off	The port has not established a valid network connection
Ethernet RJ45 Status LED		
Each Ethernet RJ45 port has two indicator lights, The yellow light is the port rate indicator, and the green is the port		
10/100/1000M (Yellow)	On	1000M work status (1000Base-TX)
	Off	10M/100M work status (10Base-T or 100 Base-TX)
LINK/ACT (Green)	On	The port has established a valid network connection
	Blinking	The port has network activity
	Off	The port has not established a valid network connection

4 Hardware installation

① Installation Precautions

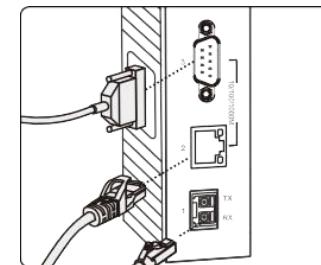
To prevent equipment damage or personal injury caused by improper use, observe the following precautions:

- 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 connection

➤ Network cables connection

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



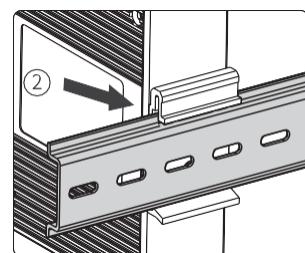
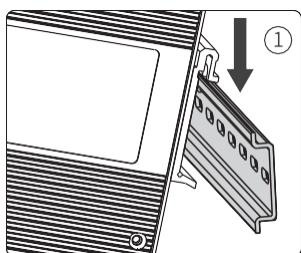
RJ45	1 White, Orange	1	RJ45
	2 Orange	2	
	3 White, Green	3	
	4 Blue	4	
	5 White	5	
	6 Green	6	
	7 White, Brown	7	
	8 Brown	8	

RJ45	1 White, Orange	1	RJ45
	2 Orange	2	
	3 White, Green	3	
	4 Blue	4	
	5 White	5	
	6 Green	6	
	7 White, Brown	7	
	8 Brown	8	

RJ45	1 White, Orange	1	DB9
	2 Orange	2	
	3 White, Green	3	
	4 Blue	4	
	5 White	5	
	6 Green	6	
	7 White, Brown	7	
	8 Brown	8	

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.



Category5 direct connection

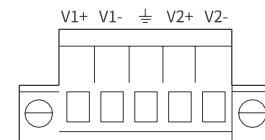
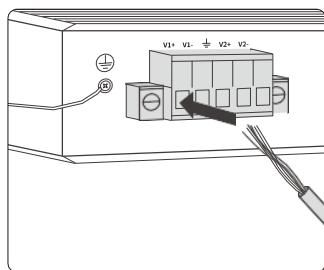
Category5 crossover connection

⚠ 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 fiber port 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

	MIGE1203G-GF-2GT	MIGE1203G-DB9-GF-2GT	MIGE2205G-5GT	MIGE2205G-GF-4GT
Exchange Function				
Bandwidth		1G		
Cache size		748Kbit		
MAC table		2K		
Interface				
100M fiber port	1*1000Base-X	1*1000Base-X	—	1*1000Base-X
	SFP Slot			
100M copper port	2* 10/100/1000Base-T(X) RJ45 ports	2* 10/100/1000Base-T(X) RJ45 ports	5* 10/100/1000Base-T(X) RJ45 ports	4* 10/100/1000Base-T(X) RJ45 ports
	Full-duplex/half-duplex adaptive or forced working mode, MDI/MDI-X adaptive			
Power supply				
Consumption	3.7W@24V(MAX)			
DC power	DC12V-48V or DC48V (36-72V) Support dual power supply redundancy, reverse connection protection			
AC power	AC85~264V Frequency : 47~63Hz or DC110~370V			
Mechanical				
Size	118mmx35mmx86mm (HxWxD)(Excluding card rail)			
Installation	35mm Standard DIN rail installation			
Radiating	Aluminum alloy single-rib chassis surface scattered, fanless			
Protection	IP40			
Weight	About 0.64kg			
Working environment				
Working temp.	-40°C~+85°C			
Storage temp.	-40°C~+85°C			
Humidity	5%~95% (No condensation)			

Industry Standard	
EMC	IEC61000-4-2(ESD), Level4
	IEC61000-4-5(Surge), Level4 ✕Ethernet ports support 6KV lightning protection
	IEC61000-4-4(EFT), Level4
	IEC61000-4-3(RS), Level 4
IEC61000-4-6(CS), Level4	

6 Order guide

Model	1000M Copper		1000M Fiber	Power supply
	RJ45	DB9		
MIGE1203G-GF-2GT	2	0	1	DC12~48V or DC48V (36~72V)
MIGE1203G-DB9-GF-2GT	1	1	1	AC85~264V (frequency: 47~ 63Hz) or
MIGE2205G-5GT	5	0	0	DC110~370V optional
MIGE2205G-GF-4GT	4	0	1	

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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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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