



Industrial Ethernet Switch

## User manual

MISCOM7220G-4GF-16GT

MISCOM8220G-4GF-16GT



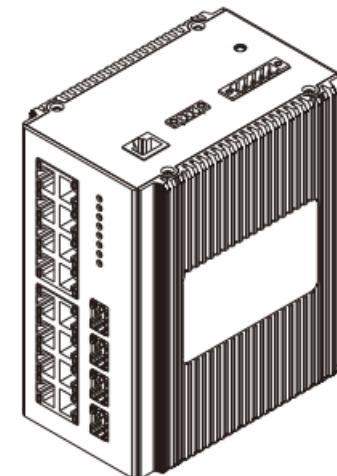
### 1 ► Packing list

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	
Console cable	1PCS	

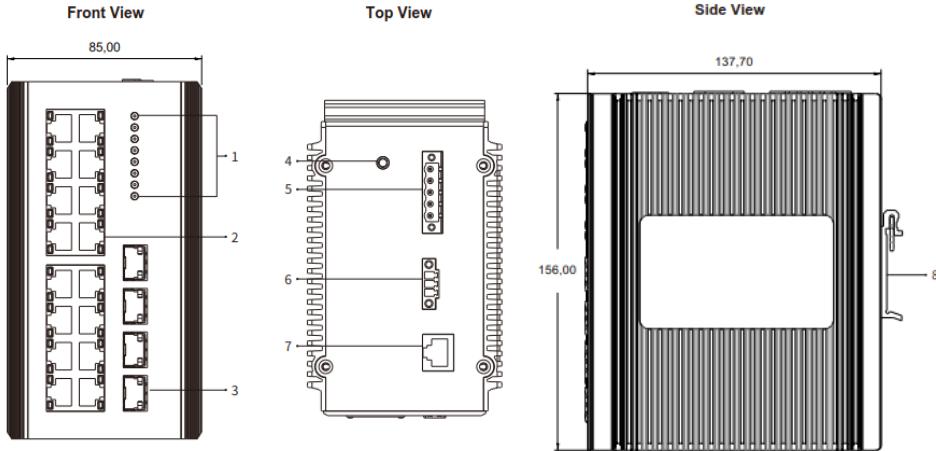
### 2 ► Product description

MISCOM7220G/MISCOM8220G series are full Gigabit layer 2/3 managed DIN RAIL industrial Ethernet switches. The series offers 20 Gigabit ports (16 Gigabit SFP and 4 Gigabit RJ45).



### 3 Interface description

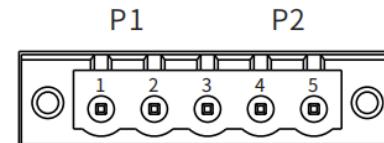
Unit:mm



1. Indicator lights	5. Power input terminal
2. Gigabit RJ45 ports	6. Relay alarm output terminal
3. Gigabit SFP ports	7. Console port
4. Ground screw	8. Din rail kit

#### [Connect the power]

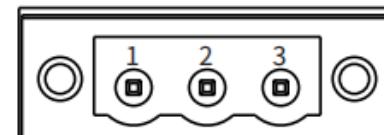
The DC power supply model of this switch supports dual power input, and the two power supplies are mutually backup; the AC power supply model supports single power input. Using 5-position locking terminals with 5.08mm spacing, the wiring definitions are as follows:



V1+ V1-  $\equiv$  V2+ V2-

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)

The AC power supply model supports a single power input. Using 3-position 5.08mm pitch terminals with locks, and the wiring definitions are as follows:

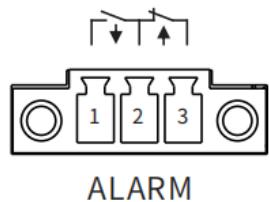


L N  $\equiv$  GND

Number	Pin definition
1	Power input L/V+
2	Power input N/V-
3	Grounded

## [Connect to the relay]

This series of switches supports the relay alarm function, and the wiring terminals use 3-position 3.81mm 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).



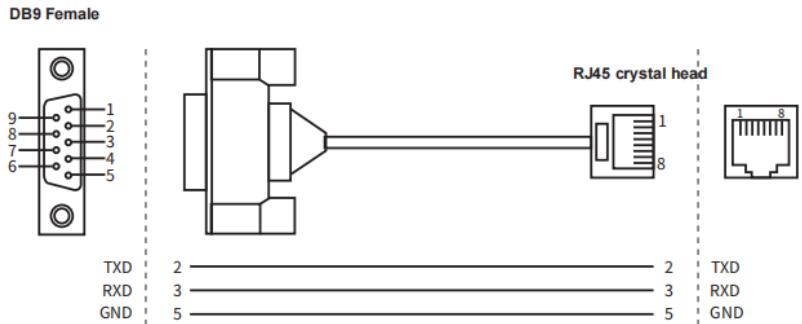
Number	Pin definition
1	Alarm relay output normally open
2	Alarm relay output common terminal
3	Alarm relay output normally closed

## [Connect the CONSOLE port]

The network management port is an RJ45 port, please use the serial port cable of our company to connect to the serial port of the PC. The interface communication standard is 3-wire RS232.

The communication parameters of the serial port are as follows:

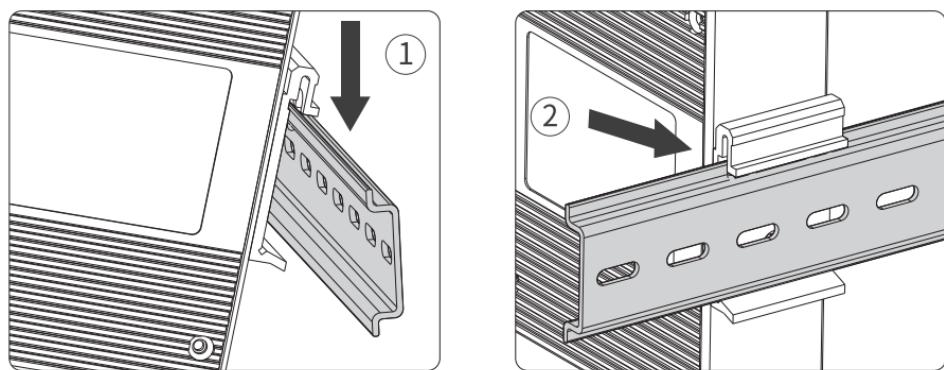
Baud rate: 115200, data bit: 8, parity bit: None, Stop bit: 1, flow control: None.



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

Indicator lights	Status	Definition
<b>System Status LED</b>		
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
	Off	The system is not working properly
ALM	On	Device power failure alarm, port offline alarm, network storm alarm
	Off	Device no alarm
<b>Fiber Port Status LED</b>		
GF1-GF4	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
<b>RJ45 Port Status LED</b>		
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.		

1000M (Yellow)	On	1000M working state
	Off	10/100M working status
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

### ① Installation Precautions

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

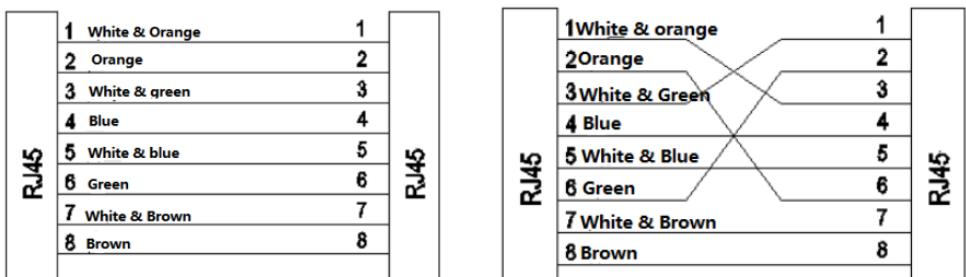
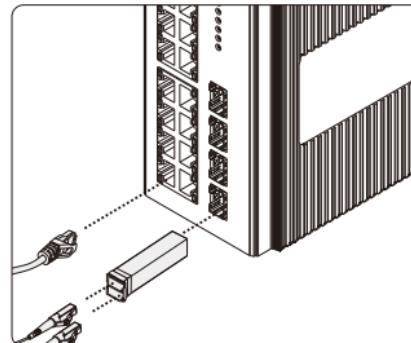
- During the installation process, you need to wear anti-static gloves or anti-static gloves, and power-off the switch.
- Please make sure that the input voltage is within the input voltage range marked on the switch.
- The transmission distance has a certain relationship with the connected wire. It 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 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]

Connect the network cable to the port in the correct direction.

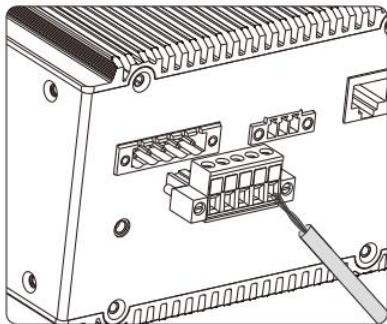


Five types of direct connection cable wiring method

Five types of cross cable wiring method

## [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.



- 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.
- 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.
- Power-off operation: first unplug the power plug, and then remove the power cord.

## 5 Log in WEB Page

The device supports WEB management and configuration. The computer can access the device through the Ethernet interface, and log in to the main interface of the WEB server through the browser.

- Configure the IP addresses of the computer and the device in the same network segment and ensure that the computer and device can access each other.

each other.

- Enter the IP address of the device in the address bar of the computer browser, the default IP address is 192.168.16.253.
- Enter the user name and password of the device in the login page
- Click the "OK" button to log in the WEB interface of the device.

## 6 Specifications

	MISCOM7220G-4GF-16GT	MISCOM8220G-4GF16GT
<strong>Switch properties</strong>		
Bandwidth	56G	128G
Cache size		12Mbit
MAC table		16K
<strong>Interface</strong>		
1000M fiber port	4*1000Base-LX SFP slot	
1000M copper port	16*10/100/1000Base-TX RJ45 ports Full-duplex/half-duplex adaptive, supports MDI/MDI-X adaptive	
<strong>Power supply</strong>		
Consumption	15W@24V(MAX)	
DC power input	DC24V(18~36V)/DC48V(36~72V) Supports dual power supply and reverse connection protection	
AC power input	AC85~264V (frequency: 47~63Hz) or DC110~370V	
<strong>Mechanical</strong>		
Size	156mm×85mm×137.7mm (L×W×H) (not include din-rail)	
Installation	35mm standard din-rail	
Heat	Aluminum alloy single-rib chassis surface scattered	
IP protection	IP40	

Weight	About 1.32kg
<b>Working environment</b>	
Working Temp.	-40°C~+85°C
Storage Temp.	-40°C~+85°C
Humidity	5%~95%(No condensation)
<b>Industry Standard</b>	
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

## 7 Order guide

Item	10/100/1000Base-TX	1000Base-LX	Power
MISCOM7220G-4GF-16GT	16	4	DC: DC24 or DC48V AC: AC85~264V
MISCOM8220G-4GF-16GT	16	4	(frequency: 47~63Hz) or DC110~370V

## 8 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.

Wuhan Maiwe Communication Co., Ltd.

Add: Building E2, No. 2 Building, Area E, No. 52 Liufang Avenue, East lake

High-tech Development Zone, Wuhan, China.

Tel: 027-87170215/16      Fax: 027-87170217

Post Code: 430205

Site: [www.maiwe.com](http://www.maiwe.com)

### 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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