Industrial Ethernet Switch

User’s manual

Contents

1. Parking list 2
2. Product introduction ..... 2~3
3. Product properties 3
4. Description of switch indicator 4
5. Installation and disassembly of switch ..... 5~6
6. Switch power up 7
7. Management of switch 8
   7.1 Managed switch series
   7.2 Unmanaged switch series
8. Optional models of products 9

Thank you for purchasing this industrial Ethernet switch. Please read this Manual carefully before proper and quick installation and full use of this product.

1. Packing list

The opened box of switch should contain the following products and accessories:

- **An Ethernet switch**
- **Terminals**
- **User’s Manual & Warranty Card & Conformity Certificate**

Note: After opening the product package, if you find that any of the above product and accessories is missing or damaged, please contact your dealer or sales personnel in time.

2. product introduction

This series of industrial switches is our product for the security industry, which is easy to be managed and maintained, and meets the networking and access requirements of small and medium-sized enterprises, intelligent communities, hotels, office networks and campus networks. The series is available in a variety of products with DIN rail mounting to meet the needs of different application sites. The dial switch design allows for rapid configuration and supports multiple operating modes: VLAN, ring network and long distance 10M. The 8-port POE model is equipped with 1-2 port green VIP channel. The QOS priority function can ensure the transmission priority of important data. The power input is supported by two

independent power supply circuits, to ensure that the device can still operate normally when any circuit of power supply fails. The hardware is designed to be fan-free and subject to low power consumption, and wide temperature and voltage range, and is qualified in strict tests in accordance with industry standards to be adapted to the industrial site environment with severe requirements for EMC, and can be widely used in intelligent transportation, highway, smart city, safe city, new energy, intelligent manufacturing, and other industrial fields.

3. Product properties

- Working temperature: -40 - 85 °C, storage temperature: -40~85°C
- Power supply: supporting 2 power inputs
- IP40-rated protection, high-strength corrugated aluminum enclosure
- DN rail mounted, fan-free
- Copper port: 10/100/1000Base, RJ45, automatic flow rate control, full/half duplex mode, MDI/MDI-X auto-detection
- Vibration: IEC 60068-2-6 shock: IEC 60068-2-27 free fall: IEC 60068-2-32
- Applicable standards: IEEE802.3, IEEE802.3u, IEEE802.3z, IEEE802.3ab standards
- EMC anti-interference: Excellent lightning protection, anti-static and anti-interference capability
- Certification: CE, FCC, ROHS, test report of the Ministry of Public Security
- A warranty of 5 years

4. Description of switch indicator

The indicators of switch are described in detail as below.

LED	Color	Status	Status description
PWR1, PWR2	Green	Solid on	Power on
		Light off	Power off
RUN	Green	Light off	Abnormal operation
		Flashing	Normal operation
LINK/ACT	Green	Solid on	Corresponding port is connected
		Light off	Corresponding port is not connected
		Flashing	Corresponding port is connected to send and receive data
Fiber port	Green	olid on	Corresponding fiber port is connected
		Light off	Corresponding fiber port is not connected
		Flashing	Corresponding fiber port is connected to send and receive data
POE	Green	Solid on	Normal POE power supply
		Light off	Failure of POE power supply

5. Installation and disassembly of switch

"Installation of DIN rail"

Step1: The guide rails are mounted as follows: Check that the DIN-rail connector that comes with the device is securely installed.

Step2: Snap the lower part of the DIN-rail connector, i.e. the side with spring support, into the DIN rail, then snap the upper part of the DIN-rail connector into the DIN rail.

Tips:
Snap the lower part by a little and gently lift upward the connector to snap the upper part.

Step3: Check and confirm that the product is reliably mounted to the DIN rail and the installation is completed.

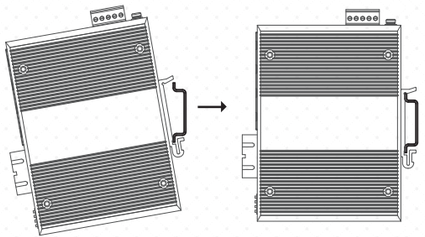

Figure 1. Schematic diagram of
the side installation of the switch

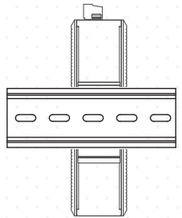

Figure 2. Schematic diagram of
the rear installation of the switch

"Disassembly of DIN rail"

Step1: The device is powered off

Step2: Gently lift the device upwards, remove the upper part from the DIN rail connector, and then the lower part from the DIN rail connector to finish the disassembly.

6. Switch power up

The series provides 5-position input terminals and two sets of DC power supply system (P1 and P2), which can be used individually, or along with two external and independent DC power supply systems. Power supply range: 9VDC - 48VDC (POE series 48-57VDC, POE pin: V+, V+, V-, V- corresponding pins 1,2,3,6)

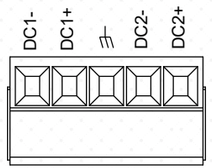

Figure 3. Schematic diagram of ground wire

Grounding: Fix the grounding wire to the grounding screw above the switch to ensure a reliable connection of a good grounding system.

7. Manage switches

7.1 Managed switch series

Managed series: The switch provides web-based management login, which allows users to log in to the switch through a web page. The default IP address of the switch is 192.168.1.254 and both the default account and password are admin. In addition, a 2-digit dial switch is designed with ON to enable and OFF to disable. The dial switch is defined as follows:

Parameters	Function
DIP switch 1	ON bit enables port isolation Vlan
DIP switch 2	OON bit turns on spanning tree
DIP switch 1, 2	The ON bit of POE models means to enable forced 10M

Reset Key:
Keep the device turned on and press the button for about 5 seconds. The system restores the default factory settings.

7.2 Unmanaged switch series

The unmanaged switch provides a 2-digit dial switch, with ON to enable and OFF to disable, defined as follows:

Parameters	Function
DIP switch 1	ON bit enables port isolation Vlan
DIP switch 2	ON bit means to enable forced 10M

8. Optional models of products

Guide rail type	Structure type	Port			
		100M Ethernet port	Gigabit Ethernet port	100M Optical port	SFP Gigabit Optical Port
5 Gigabit copper port	Guide rail	/	5	/	/
8 Gigabit copper port	Guide rail	/	8	/	/
1 Gigabit SFP fiber ports, 1 Gigabit copper port	Guide rail	/	1	/	1
1 Hundred Megabit 1×9 fiber port, 4 Hundred Megabit copper ports	Guide rail	4	/	1	/
1 Gigabit SFP fiber ports, 4 Gigabit copper port	Guide rail	/	1	/	4
1 Gigabit SFP fiber ports, 8 Gigabit copper port	Guide rail	/	1	/	8
2 Gigabit SFP fiber ports, 4 Gigabit copper port ★	Guide rail	/	4	/	2
2 Gigabit SFP fiber ports, 8 Gigabit copper port ★	Guide rail	/	8	/	2
4 Gigabit SFP fiber ports, 8 Gigabit copper port ★	Guide rail	/	8	/	4
Guide rail POE model	**Structure type**	**Port**			
4 POE ports are connected with 1 light and 1 power in Gigabit	Guide rail	/	5	/	1
4 POE ports 2 Gigabit SFP ★	Guide rail	/	4	/	2
8 POE ports are connected with 1 light and 1 power in Gigabit	Guide rail	/	9	/	1
8 POE ports 2 Gigabit SFP ★	Guide rail	/	8	/	2

Note: ★ network management and non-network management are optional.