

Industrial Switch

USR-ISG108P-SFP

Specification



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1.Product Profile

USR-ISG108P-SFP is an industrial Ethernet switch launched by Human Internet of Things Technology Co., Ltd., equipped with 1 Gigabit SFP optical port and 8 10/100/1000M Base-T adaptive electrical ports, single port PoE power up to 30W, the product has a working temperature of -40°C~85°C, with super ruggedness to adapt to various harsh environments. Rail-type installation features, wide temperature operation, provide reliable and convenient solutions for users' Ethernet equipment networking to meet the deployment requirements of rail transit, safe city, intelligent transportation, security monitoring and other harsh environments, and provide reliable and convenient solutions for users' Ethernet equipment networking.

2.Product characteristics

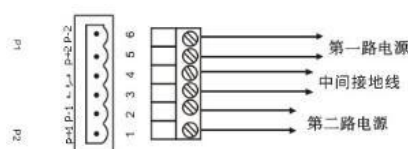
- High-quality optoelectronic integrated modules provide good optical and electrical characteristics
- Ensure reliable data transmission and long service life
- Supports full duplex or half duplex mode with auto-negotiation capability
- The network port supports automatic cross recognition
- Built-in store-and-forward mechanism, supporting multiple protocols
- Comply with industrial-grade operation standards, with an average trouble-free operation of more than 300,000 hours
- Working power supply: DC 48-57V provides reverse connection protection
- Use SFP fiber optic interface
- Lightning surge protection (power supply): 5000A(8/20μs)

3.Panel Description

Side panel: P1 and P2 are power terminals, and the middle is ground interface; P+1 and P-1 correspond to the positive and negative poles of power connection respectively; grounding screws are used for equipment grounding. Front panel: with RJ45 electrical port, SFP slot (compatible with fiber optic module or electrical port module), operation indicator light

4.Power input

Industrial Ethernet switches are dual-power backup, when both power supplies are connected, only one power supply works, when this power supply fails, it automatically switches to the other power supply to achieve stable operation of the switch.



Note: Please connect the positive and negative poles of the power supply according to the terminal identification, input the voltage DC12- 52V according to the voltage range, and only connect one power supply to work normally.

5.Description of indicator light

Indicator light	Type	State	Implication
DC1/DC2	Power led	Red light always on	Power supply normal
		Red light off.	Power failure or no power supply
RJ45indicator light	Mesh lamp	Yellow light is on	Network connection normal
		Flashing yellow light	Link communication normal
		green light flashes	PortPOEpower supply normal
		Yellow and green lights off	Port No Connection
9	fiber optic light	light on	Fiber optic connection OK, flashing indicates data communication
		The light goes off.	link exception

6.Specifications

Project	Specification parameter
Number of ports	9
Port specification	1Gigabit optical port (SFP slot), 8Gigabit electrical ports (10/100/1000Mself-negotiation)Single port PoE power up to30W (IEEE802.3at); 15.4W (IEEE 802.3af)
Ethernet standard	IEEE802.3 10BASE-T;IEEE802.3u 100Base-TX/FX; IEEE802.3ab 1000Base-T;IEEE802.3z 1000Base-X;IEEE802.3x; IEEE802.3af;IEEE802.3at
Mac address table	16K
Backplane bandwidth	20G
Cache	14.88Mbit
Power supply	DC12-52V, dual power redundancy, built-in over current 4.0A protection, reverse connection protection
Power supply terminal	Phoenix terminal power supply
Overall power consumption	<3W
Installation method	DIN rail
Heat dissipation method	passive heat dissipation
Shell	aluminium alloy
Entrench	IP40
Operating temperature	-40~85°C
Storage temperature	-40~85°C
Relative humidity	10%~90% No condensation
Size	143 x 101 x 44mm (L x W x H)
Bare metal weight	<0.6Kg
Mean time between failures	300,000hours
Warranty time	5years

7. Installation instructions

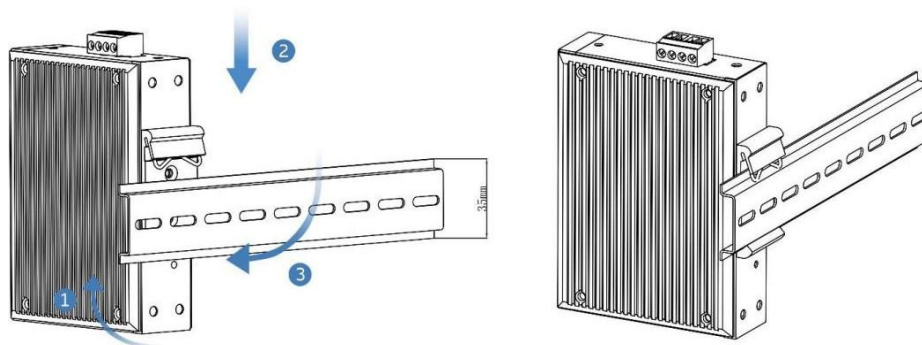
1. Tilt the equipment upwards so that the snap ring at the upper end of the equipment buckle is buckled outside the DIN clip rail;
2. Press down on the device so that the lower end of the clip is snapped into the DIN clip rail;
3. Check if it is secure after fastening

To install the product on the rail with rail mounting, the following steps are performed:

Step 1: Check the grounding and stability of the guide rail: insert the guide rail card slot of the switch into the guide rail;

Step 2: insert the positioning screws of the guide rail in sequence from the center to both sides;

Step 3: Fix the mounting rail slots on the fixed guide slots at both ends of the rail with screws to ensure that the rail and the switch are vertically and stably fixed on the rail.



Installation considerations

To avoid damage to equipment and personal injury caused by improper use, please observe the following precautions:

- ⊙ In order to avoid damage caused by falling equipment, please put the equipment in a stable environment.

When supplying power to the equipment, pay attention to confirm the range of the power supply voltage and the positive and negative poles of the power supply: so as not to damage the equipment by wrong operation.

- ⊙ To reduce the risk of electric shock, ensure that the equipment is well grounded in the working environment.
- ⊙ Please do not disassemble the equipment shell at any time.
- ⊙ When placing the switch, avoid dusty areas and areas with strong electromagnetic interference.

Update history

Firmware version	Update content	Turnover time
V1.0.0	First edition	2023-06-28