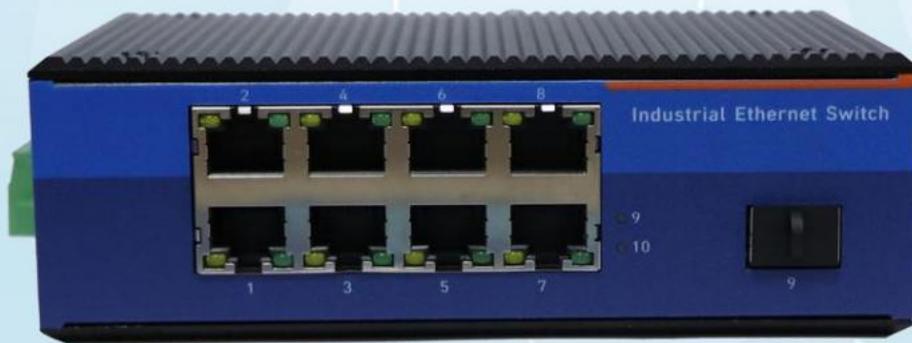


Industrial Switch

USR-ISG108P-SFP

Specification



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Catalogue

| | |
|---|---|
| 1. Product Profile | 3 |
| 2. Product characteristics | 3 |
| 3. Panel Description | 3 |
| 4. Power input | 3 |
| 5. Description of indicator light | 4 |
| 6. Specifications | 5 |
| 7. Installation instructions | 6 |

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

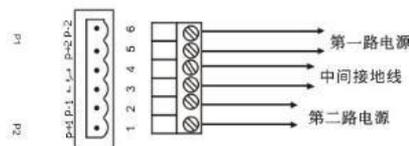
- High-quality optoelectronic integrated modules provide good optical and electrical characteristics
- Ensure reliable data transmission and long service life
- Supports full duplex or half duplex mode with auto-negotiation capability
- The network port supports automatic cross recognition
- Built-in 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 (8/20 μs)

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 DC48- 57V 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 | DC48-57V, 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

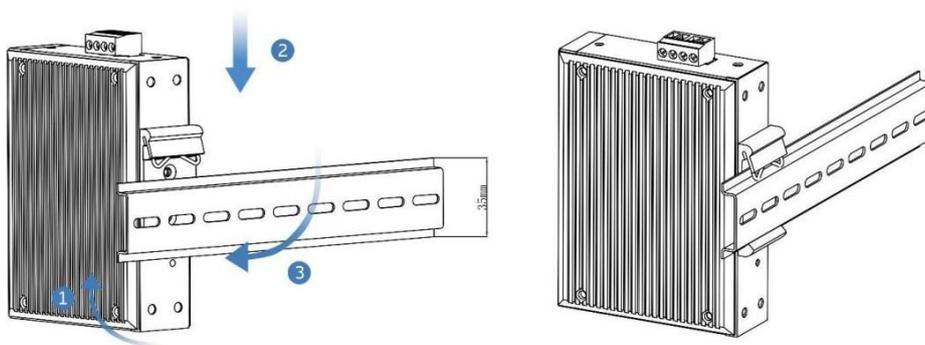
1. Tilt the equipment upwards so that the snap ring at the upper end of the equipment buckle is buckled outside the DIN clip rail;
2. Press down on the device so that the lower end of the clip is snapped into the DIN clip rail;
3. Check if it is secure after fastening

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 |
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