Industrial Switch

i105

user manual template

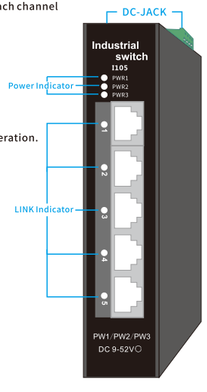


product description

This product is an industrial switch designed by our company for reliable and stable operation in harsh industrial environments. It provides 3 sets of redundant power input ports (support voltage range:9-52VDC)and can be connected to three DC power sources at the same time (All support reverse connection), the working temperature is -40-75 degrees Celsius, the metal shell protection grade is IP30, it is strong and durable in the difficult industrial environment, and it supports DIN rail installation, safe and reliable.It is widely used in many fields such as industrial intelligence, urban intelligent transportation and the Internet of Things.

Product Features

- Follow IEEE802.3 Ethernet and IEEE802.3u Fast Ethernet protocol standards.
- Three redundant power inputs, more power supply guarantee, each channel supports anti-reverse connection.
- DIN rail installation, electric control box and weak current box supporting DIN rail seat, direct buckle installation.
- All ports support full duplex/half duplex working mode.
- Automatic MDI/MDI-X line sequence cross.
- Automatic address learning and aging.
- Storage/conversion and frame filtering.
- Full-duplex IEEE802.3 flow control, half-duplex Backpressure operation.
- 1522 byte maximum packet length.
- Plug and play.
- Support Energy-Efficient Ethernet.
- Industrial grade iron shell design, better heat dissipation performance, safety and stability.

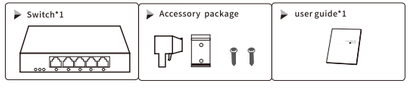


Indicator LED definition

LED	status	Description
Power: PWR1 PWR2 PWR3	PWR1 ON	The first DC input is connected
	PWR2 ON	The first DC input is connected
	PWR3 ON	The first DC input is connected

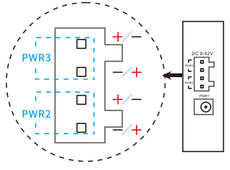
LINK: 1-5	OFF	No connection to port
	ON	Port connection is normal, no data transmission
	Flashing	Data transmission

Product supporting list



Product structure and installation

Schematic diagram of power terminal wiring



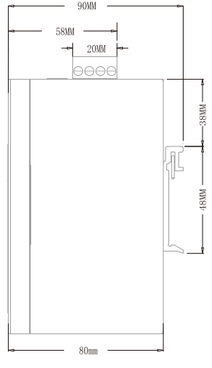
3 groups of DC inputs all support anti-reverse connection

1.Insert the DC connecting wire into the terminal connector and pay attention to the positions of the two sets of input terminals.

2. Use a small flat-blade screwdriver to tighten the clamp screws on the side of the terminal connector.

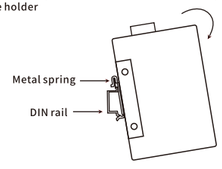
3. Insert the terminal connector block into the terminal block located on the top plate of the switch.

Side size diagram

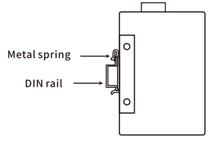


DIN rail installation

1.Insert the top of the DIN rail under the metal spring of the holder



2.Quickly press the DIN rail seat unit into the position shown in the figure below.



precautions

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

- When installed in an electric control box, avoid strong electric contact and eliminate unnecessary safety hazards;
- Please connect to the switch power supply as shown in the figure, and make sure that the power supply voltage matches the voltage marked on the switch;
- To avoid damage to the equipment, do not open the shell when the switch is working, and do not open it by yourself even when it is not powered;
- Before cleaning the switch, the power plug of the switch should be unplugged. Do not wipe it with wet fabric, and do not clean with liquid;
- When installing an outdoor waterproof box. Pay attention to strengthening the waterproof protection of the whole machine and power supply, and try to reserve Cooling space;
- Recommendation: If possible, connect the switch to the earth wire reasonably;

Technical parameter

Model	5-port 10/100M industrial switch
Port specifications	5 network ports with a speed of 10/100 Mbps
Store and forward	support
Switching Capacity	1G
MAC	4K
working environment	Working temperature:-40°C-70°C Storage temperature;-40°C-85°C
	Working humidity: 10%-90% RH non-condensing Storage humidity:5%-90% RH non-condensing
Input power	DC 9-52V
Supported standards and protocols	IEEE 802.3 Ethernet Media Access Control Protocol IEEE 802.3i 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3x flow control
Redundant power supply	There are 3 channels of DC input power in total. When multiple channels are used for simultaneous input, the disconnection of one of the circuits will not affect the continuous operation of the device. Each power input supports positive and negative reverse connection to avoid damage to the equipment due to equipment.
Data transfer	10Mbps half duplex; 20Mbps full duplex Fast Ethernet 100Mbps haif duplex; 200Mbps full duplex
Network medium	100Base-TX:2 pairs of Cat 5 (or more) UTP/STP (≤100m) 10Base-T:2 pairs of Cat 5 (or more) UTP/STP (≤250m)
Physical specifications	size:132mm*80mm*27mm

Product parameters and appearance are subject to change without notice, please refer to the official website.



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