



# **Gigabit Industrial PoE Switch 2 x RJ45, 1x SFP**



## **Quick Installation Guide**

DN-652120

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## 1. Overview

Industrial PoE Ethernet switch with 2-Port 10/100/1000Mbps RJ45(PoE) +1 Port 1000Mbps SFP, the Product meet CE, RoHS standards. DN-652120 switch has the operating temperature of -40°C ~80°C, has the super firmness can adapt to all kinds of harsh environment, can also be conveniently placed in the compact space of the control box. The installation characteristics of the guide rail, wide temperature operation, IP40 protection class housing and LED indicator light make the DN-652120 a plug and play industrial grade device, providing a reliable and convenient solution for users to network their Ethernet devices.

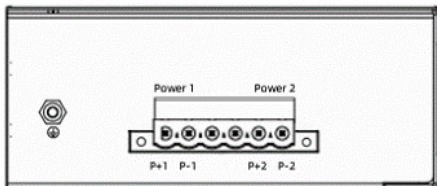
## **2. Main Features**

- The use of high quality photoelectric integration module to provide good optical and electrical characteristics
- Ensure reliable data transmission and long working life
- Support full duplex or half duplex mode, with automatic negotiation capability
- Network port support automatic cross identification
- Internal storage and forwarding mechanism, support a variety of protocols
- In line with industrial operating standards, the average trouble-free work in more than 300,000 hours
- Working power supply: DC 48-57V to provide reverse protection
- Lightning Surge Protection (Power): 5000A(8/20 $\mu$ s)

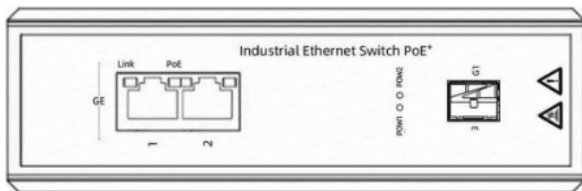
## **3. Package content**

- Industrial Switch 2 x RJ45 1 x SFP
- QIG

## 4. Switch Panel

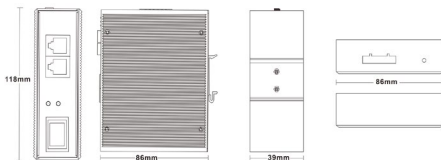


**DN-652120 Side panel:** P1 and P2 are the number of connecting terminals, P+1 and P-1 are respectively to the positive and negative poles to be connected; Earthing screw, used for earthing equipment.



**DN-652120 Front panel:** The yellow light on the port is the LINK light, which is on when the connection is established, and the data transmission is flashing. The green light is PoE light, which is only on when the switch port is supplying power to the PD devices. Power indicator light is on when connecting with Power.

## Switch size (mm)



## 5. Specification

### 5.1 Standard:

IEEE802.310 BASE-TIEEE 802.3i

10 Base-T; IEEE802.3u; 100Base-TX / FX;

IEEE802.3ab1000Base-T;

IEEE802.3z1000Base-X; IEEE802.3x; IEEE802.3af, IEEE802.3at

### 5.2 Interface:

2-Port 10/100/1000Mbps RJ45(PoE) +

1 Port 1000Mbps SFP Industrial Switch

### 5.3 Work environment:

Operating temperature: -40~80 °C

Storage temperature: -40~80 °C

### 5.4 Switch:

Bandwidth: 14Gbps

Packet Buffer Memory: 1.2Mbit

Packet Forwarding Rate: 10.5Mpps

MAC Address Table: 2K

### **5.5 Power supply:**

input voltage: DC48-57V (two-way power redundancy backup);

Access terminal: Phoenix terminal; Support dual power redundancy; Support built-in over current 4.0A protection;

Support reverse connection protection

### **5.6 Mechanical characteristic:**

IP40 aluminum housing

DIN rail install,

Natural cooling (No fan)

Weight: 0.42Kgs.

Measurement: 128 x 86 x 34 mm

### **5.7 Industrial standard:**

IEC61000-4-2 (ESD):  $\pm 8\text{kV}$  (contact),  $\pm 12\text{kV}$  (air)

IEC61000-4-3 (RS):  $10\text{V/m}$  (80~1000MHz)

IEC61000-4-4 (EFT): Power Port:  $\pm 4\text{kV}$ ; Data Port:  $\pm 2\text{kV}$

IEC61000-4-5 (Surge): Power Port:  $\pm 2\text{kV/DM}$ ,  $\pm 4\text{kV/CM}$ ; Data Port:  $\pm 2\text{kV}$

IEC61000-4-6 (CS):  $3\text{V}$  (10kHz-150kHz);  $10\text{V}$  (150kHz-80MHz)

IEC61000-4-16 (Common mode conduction):  $30\text{V}$  (cont.),  $300\text{V}$  (1s)

Frequency range: 150kHz-80MHz

Impact: IEC 60068-2-27

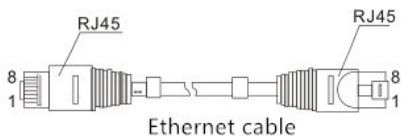
Free Fall: IEC 60068-2-32

Vibration: IEC 60068-2-6

## 6. Interface Definition

### 10/100/1000Base-TX ethernet interface:

This series of switches provides MDI/MDI-X self-identification with cable support on all 10/100/1000 Base-TX ports. In use, the Ethernet port of the switch can be connected with other Ethernet terminal devices through network cables (direct or cross). Please use Class 5 shielded twisted pair. The Ethernet port pin definition is shown in the following figure:



RJ45 port supports automatic MDI/MDI-X operation, you can use a straight line to connect to the PC or server, connect to other switches or hubs. In the through line (MDI), pins 1, 2, 3, 4, 5, 6, 7, 8 correspond to the connection; For the MDI-X port of a switch or hub, cross lines are used: 1-3, 2-6, 3-1, 6-2, 4-7, 5-8, 7-4, 8-5.1000Base-T (X) pins are defined as follows:

Pin No.	MDI signal	MDI-X-signal
1	TX+	RX+
2	TX-	RX-
3	RX+	TX+
6	RX-	TX-
4, 5, 7, 8	-	-

Note: "Tx ±" refers to sent data ±, "Rx ±" refers to received data ±, and "-" refers to unused data.

## 7. LED Indicator

LED indicator	Status	Definition
Power	Red LED on	Power supplying in normal
	Red LED off	Power supply abnormal or no powering
RJ45 indicator	Yellow LED on	Network connection in normal
	Yellow LED flashing	Link communication in normal
	Green LED on	PoE feeding in normal
	Yellow/Green LED off	No connection at port



LINK	Green flashing	Optical work in normal
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## **8. Installation caution**

### **8.1 Installation precautions**

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

- In order to avoid damage caused by falling of the equipment, please put the equipment in a stable environment
- When supplying power to the equipment, pay attention to confirm the range of power supply voltage, as well as the positive and negative poles of the power supply, so as not to damage the equipment by wrong operation
- In order to reduce the risk of electric shock, ensure that the equipment is well grounded in the working environment
- No matter when, please do not arbitrarily remove the equipment shell
- When placing the switch, please avoid the area with dust and strong electromagnetic interference

## 8.2 Din rail installation:

The first step is to check the grounding and stability of the guide rail: the guide rail slot of the switch is clamped into the guide rail.

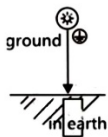


The second step: from the center to both sides of the guide rail positioning screws in order.

Step 3: Use screws to fix the mounting rail card slot on the fixed guide groove at both ends of the guide rail to ensure that the guide rail and the switch are fixed on the guide rail vertically and stably.

## 8.3 grounding

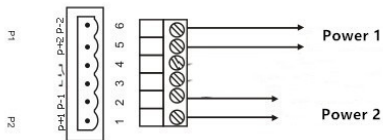
Fix the grounding wire to the grounding screw above the switch and ensure good reliable connection of the grounding system.



## 8.4 Power Connection

Insert the power cord into the specified position of the 6-core terminal and insert the terminal into the standard power supply inlet (P+1 and P-1 input corresponding to the

first power supply P1, and P+2 and P-2 input corresponding to the second power supply P2). The available voltage standard of the power supply is supported from 48VDC to 57VDC.



## Disclaimer

This is a Class A product. In home environment, this product may cause radio interference. In this case, the user may be required to take appropriate measures.

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