

Eight channel IEPE vibration sensor data high-speed synchronous network



acquisition module WJ288

Figure 1 Appearance of WJ288 module

Product features:

- •Eight way IEPE vibration sensor input RJ45 network port output
- Built in 4mA constant current source to supply power to IEPE vibration sensor
- •Automatically collect and report data through UDP/TCP protocol
- Module IP and other parameters can be set through commands
- DC power supply: 24VDC
- •High reliability, easy to collect, and easy to apply
- Optional metal waterproof box installation, waterproof and moisture-proof
- •Can work in harsh environments such as ports and bridges
- Regular blue flame retardant shell size: 120 x 70 x 43mm
- Metal shell size: 175 x 80 x 56mm

Typical applications:

- •Bridge vibration monitoring
- •Measurement of vibration in skyscrapers
- Rail transit vibration detection
- •Crane 3-axis vibration measurement
- Monitoring of gantry crane
- •Port lifting machinery
- Motor vibration
- Microphone audio measurement
- •Wind power equipment vibration monitoring system

Product Overview:

The WJ288 product is an IoT and industrial Ethernet acquisition module that enables sensor data collection and

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Signal Isolators & Conditioners

transmission to the network. IEPE stands for Integrated Electronics Piezo Electronic, which is an integrated circuit type piezoelectric sensor. This type of piezoelectric sensor with built-in electronic components has become the standard in industrial applications. Semiconductor circuits convert high impedance signals from piezoelectric sensors into low impedance voltage signals that are easier to transmit. With IEPE, power supply and signal transmission can be achieved with just one standard cable of any length, without measurement errors caused by cable movement.



Figure 2 Internal Block Diagram of WJ288 Module

The WJ288 series products include power conditioning, analog synchronous acquisition, constant current source output, and RJ-45 network interface communication. The communication method adopts UDP/TCP protocol. Users can set module IP addresses, subnet masks, etc.

The WJ288 series products are intelligent monitoring systems based on microcontrollers, and configuration information such as module IP addresses and subnet masks set by users are stored in non-volatile memory EEPROM.

The WJ288 series products are designed and manufactured according to industrial standards, with strong anti-interference ability and high reliability. The working temperature range is -45 $^{\circ}$ C to+85 $^{\circ}$ C.

Function Introduction:

WJ288 remote I/O module can be used to synchronously measure eight IEPE analog signals. At the same time, each channel has a 4mA constant current source that can supply power to the sensor for easy measurement.

1. Analog signal input

16 bit AD acquisition, 8-channel analog signal $0-\pm 10V$ input. Synchronous acquisition speed of 20K SPS.

2. Communication Protocol

Communication interface: RJ-45 network interface. The two indicator lights at the network port position, the Link light (green light) will light up after the network cable is plugged in, and the Data light (yellow light) will flash irregularly when there is data.

Communication protocol: UDP/TCP protocol is adopted, and data is automatically reported.

Communication response time: less than 10mS.

3. Anti interference

There is a transient suppression diode inside the module, which can effectively suppress various surge pulses and protect the module.

Product model:

WJ288 -U□ - **RJ45** - □

Input voltage or current signal value shell

IEPE: IEPE sensor input (default model) **Default**: regular blue flame-retardant shell

U1:0-5V D: External metal casing



U2: 0-10V communication interface

U5: 0- \pm 5V RJ45: Output is an RJ-45 network interface

U6: 0-±10V

U8: User defined

The default model of the product is WJ288-IEPE-RRJ45, and other parameter inputs need to be customized.

Selection Example 1: Model: WJ288-IEPE-RRJ45 indicates 8-channel IEPE sensor signal input, with an RJ-45 network interface output Selection Example 2: Model: WJ288-U5-RJ45 indicates 8-channel $0-\pm 5V$ signal input, no constant current source at the input end, and an RJ-45 network interface output Selection Example 3: Model: WJ288-IEPE-RJ45-D indicates 8-channel IEPE sensor signal input, output as RJ-45 network interface, with an additional metal casing **WJ288 General Parameters:** (Typical @+25 °C, Vs is 24VDC) Analog input: AD accuracy: 16 bits Input range: $0-\pm 10$ VDC Constant current source: $4mA (\pm 1mA)$ Temperature drift: $\pm 10 \text{ ppm/°C}$ ($\pm 30 \text{ ppm/°C}$, maximum) Input resistance: greater than 100K Ω Sampling rate: 20K SPS Communication: UDP/TCP communication protocol Interface: RJ-45 network interface. Working power supply: 24VDC (\pm 10%) power supply, with internal anti reverse and overvoltage protection circuits Power consumption: less than 3W Working temperature: -45~+80 °C Working humidity: 10~95% (no condensation) Storage temperature: -45~+80 °C

Storage humidity: 10~95% (no condensation)

Blue flame retardant shell size: 120 x 70 x 43mm

Metal shell size: 175 x 80 x 56mm

Pin definition:

Pin	name	Description	Pin	name	Description		
0.00	DI0	Channel 0 switch signal input	ton	AGND	Analog signal input negative		
one		terminal	ten		terminal		
two	DI1	Channel 1 switch signal input	input		Channel 0 analog signal input		
two		terminal	eleven		positive terminal		
three	GND	Switch signal input negative	twolvo	IN1	Channel 1 analog signal input		
tillee		terminal	twelve		positive terminal		
form	NC	Empty feet	thirte	IN2	Channel 2 analog signal input		
Ioui			en		positive terminal		
five	NC	Empty feet	fourte	AGND	Analog signal input negative		
			en		terminal		



Signal Isolators & Conditioners

six	NC	Empty feet	fifteen		Analog signal input negative terminal
seven	PW+	Positive end of power supply	sixtee n	IN3	Channel 3 analog signal input positive terminal
eight	GND	Negative end of power supply	sevent een	IN4	Channel 4 analog signal input positive terminal
			eighte en	IN5	Channel 5 analog signal input positive terminal
nine	RJ45	RJ45 network port	ninete en	AGND	Analog signal input negative terminal
			twent y	IN6	Channel 6 analog signal input positive terminal
			twent	IN7	Channel 7 analog signal input
			y-one		positive terminal
			twent	AGND	Analog signal input negative
			y-two		terminal









Firstly, the WJ288 module can be configured through a mobile

phone

In addition, if the network segment of the computer is 192.168.0.xx, you can also connect the module to a network cable and log in to the webpage configuration module of the module by entering the factory default IP (192.168.0.7) of the module in the browser.

·····································	1. Put the module into AP mode
 役直	 (1) Connect the power and turn the module's switch to Initiat. (2) Open the wireless LAN on your phone or Go to "Settings → WLAN" and find the WiFi name starting with "wifi8" to connect.
■ 中国移动 4G 10:57 登 ■ 输入"wifi840:F5:20:07:79:00"的密码	The factory password for this module is: 12345678, then "Join".
取消 输入密码 加入	
密码 您也可以将iPhone靠近任何已接入此网络且已添加您为 联系人的iPhone、iPad或Mac,来访问此无线局域网。	
15:11 .III 5G 🔲	2. Enter the module webpage.
Captive.apple.com wifi8 全 > 登录 取消 配置模块参数 固件远程升级 Json批量配置	After connecting to the WiFi of the module, wait a few seconds and it will automatically redirect to the built-in webpage of the module, as shown in the left figure. If the phone cannot automatically redirect, you can also open the mobile browser and enter the website 192.168.4.1 to log in. Click on the configuration module parameter link to enter the configuration interface



09:18		.11 1 5G 🔲
	captive.apple.com wifi8	
< >	登录	取消
参数设置	t ———	
上报方式		
UDP Mode		٥
IP地址		
192.168.0.7		
默认网关		
192.168.0.1		
子网掩码		
255.255.255	5.0	
本地端口		
23		
远程服务器IF	>地址	
192.168.0.8		
远程服务器端		
23		
自动上报		
是		٥
数据格式		
16进制		\$
量程		
10V		0
采样速度		
20000		
IEPE恒流源		
打开		\$
模块名称		
C049EF67A	57C	
	保存并重启	
Macthtl: C0:49:EE:67	7:45:70:版本:\/1.1	

Signal Isolators & Conditioners

(1)Reporting method Supports UDP and TCP Server connection methods. (2) IP address The IP address of the module must be in the current WiFi network segment and not the same as the IP address of other devices in the local area network. For example, if the IP of the WiFi router is 192.168.0.1, the IP of the module can be set to 192.168.0.7 (3) Default gateway Gateway of the module, fill in the IP address of the current WiFi router. For example, if the IP address of a WiFi router is 192.168.0.1, simply fill in this IP address (4)Subnet mask The subnet mask of the module. If there is no cross network segment, fill in the default value of 255.255.255.0 (5)Local port Communication port of module (6)Remote server IP address Remote server IP, the server that UDP needs to connect to. (7)Remote server port The port of the server. (8)Automatic reporting Is the module automatically reported when powered on. (9)Data format Select data format (10)Range Set data range (11)Sampling speed Set module sampling speed (12)IEPE constant current source Turn on or off IEPE constant current source (13)Module Name Module Name



更新模块固件 ————	4. Remote firmware upgrade
固件版本 最新版 ◆	
开始	
09:19Il 5G 🗩	5. Batch setting parameters
Control of the series of the serie	Click on the Json Batch Configuration link on the module's homepage to enter the Batch Settings interface. As shown in the left figure. The data must be in standard JSON format, and all parameters can be set or only some parameters can be set. If there are many products to be set up, batch setting can save time. After completing the filling, click the button Save Json data. For example: { "workmode": 2, "ipAddress": "192.168.0.7", "gateway": "192.168.0.1", "netmask": "255.255.255.0", "localPort": 23, "remoteServerIp": "192.168.0.168", "remotePort": 23, "autoSend": 0, "dataFormat": 0, "ADrange": 10, "ADrange": 10, "ADrate": 20000, "iepe": 1, "devName": "C049EF67A57C" }



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$\leftrightarrow \rightarrow \circ$	ë o 💼 💽	Attp://192.1	68.0.11/
★ 收藏 ▼ 🖕]手机收藏夹 🛃 网址	大全 📿 360搜索	游戏中心
配置模块	参数		
固件远程	計级		
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6. The module webpage can also be opened on

the local area network

If the module is already connected to a network cable, you can enter the module IP in the computer or mobile prowser, such as 192.168.0.7, to open the module webpage (provided that the computer IP or mobile IP is in the same network segment as the module, and the login operation should be based on the current module IP address), and then enter the internal webpage of the module. You can also configure modules or read module data, and the operation method is the same as the table above.

Character Communication Protocol:

The default IP address for the module at the factory is 192.168.0.7, the remote host IP is 192.168.0.8, remote port 23, and the communication protocol is UDP/TCP protocol.

TCP communication: The TCP client can connect to the module with IP 192.168.0.7 and port 23.

UDP communication: You can set the computer IP to 192.168.0.8, and UDP software can open port 23 to establish a connection with the module.

After connecting, you can issue the following string command to modify the parameters.

1. Configure the reading module

Command: ReadConfig:

reply:

{"workmode":2,"ipAddress":"192.168.0.11","gateway":"192.168.0.1","netmask":"255.255.255.0","localPort":23,"remot eServerIp":"192.168.0.168","remotePort":23,"autoSend":0,"dataFormat":0,"ADrange":10,"ADrate":20000,"iepe":1,"dev Name":"C049EF67A57C"}

Format Description:

"workmode"	Reporting method: 2 represents UDP; 0 represents TCP Server
"ipAddress"	IP address
"gateway"	Default gateway
"netmask"	Subnet mask
"localPort"	Local port
"remoteServerIp"	Remote server IP address
"remotePort"	Remote server port
"autoSend"	Automatic reporting: 0 represents' no '; 1 represents' yes'
"dataFormat"	Data format: 0 represents "hexadecimal"; 1 represents "string"
"ADrange"	Range
"ADrate"	Sampling speed
"iepe"	IEPE constant current source: 0 represents "off"; 1 represents "open"
"devName"	Module name: can be modified on the webpage as needed

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Signal Isolators & Conditioners

2. Write the configuration of the module. The green parts are parameters that can be modified as needed, and other parameters should not be changed. The setting takes effect after the module is restarted. After the setting is complete, you can send the Reset: command to restart the module

Command: Send: WriteConfig: {"workmode": 2, "ipAddress": "192.168.0.7", "gateway": "192.168.0.1", "netmask":

"255.255.25.0", "localPort": 23, "remoteServerIP": "192.168.0.168", "remotePort": 23, "autoSend": 0, "dataFormat": 0, "ADrange": 10, "ADrate": 20000, "iepe": 1, "devName": "C049EF67A57C"}

Reply: Success!

Individual parameters can also be configured separately, for example:

Command: WriteConfig: {"ipAddress": "192.168.0.11"} Modify the IP address of the module

Command: WriteConfig: {"remoteServerIP": "192.168.0.168", "remotePort": 23} Modify the remote host IP address and port

Command: WriteConfig: {"autoSend": 1} Enable automatic data reporting when powered on, 0 indicates disable, 1 indicates enable

Command: WriteConfig: {"devName": "m100"} Change the module name to m100

3. Other commands

Command: Start: Start automatic data reporting

Command: Stop: Stop automatic data reporting

Command: Reset: Restart module

Automatic reporting data format:

Set to automatically upload upon startup, or after the Start: command, the module will automatically send in the following format according to UDP/TCP protocol. All data are in hexadecimal format, arranged in the following order according to the table:

Data content	Byte	Example	explain
	count		
Protocol	four	0xAA55EB90	Protocol frame header, 4 fixed data
frame header			
Measurement	four	0x00000001	Measure the data of the internal clock of the measurement
time			system, in units of us, starting from 0 after overflow
Data length	one	0x19	The length of the total data, including all data except CRC
Channel 0	two	0xFFFF	Signed 16 bit data, int16 format, 0x7FFF=10V
data			
Channel 1	two	0xFFFF	Signed 16 bit data, int16 format, 0x7FFF=10V
data			
Channel 2	two	0xFFFF	Signed 16 bit data, int16 format, 0x7FFF=10V
data			
Channel 3	two	0xFFFF	Signed 16 bit data, int16 format, 0x7FFF=10V
data			
Channel 4	two	0xFFFF	Signed 16 bit data, int16 format, 0x7FFF=10V
data			
Channel 5	two	0xFFFF	Signed 16 bit data, int16 format, 0x7FFF=10V
data			
Channel 6	two	0xFFFF	Signed 16 bit data, int16 format, 0x7FFF=10V

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data			
Channel 7	two	0xFFFF	Signed 16 bit data, int16 format, 0x7FFF=10V
data			
CRC	two	0x0000	Calculate CRC for all the previous data, please follow the
verification			example crc16() below;

In order to improve the data transmission rate, a UDP/TCP packet will contain more than 37 sets of data.

Data example: AA 55 EB 90 00 FF CF 4E 19 80 01 80 01 80 01 00 01 00 02 00 00 00 FF 93 02 6A

/*CRC high byte value table*/

const unsigned char auchCRCHi[] = {

0x00, 0xC1, 0x81, 0x40, 0x01, 0xC0, 0x80, 0x41, 0x01, 0xC0, 0x80, 0x41, 0x00, 0xC1, 0x81, 0x40, 0x01, 0xC0, 0x80, 0x41, 0x00, 0xC1, 0x81, 0x40, 0x00, 0xC1, 0x81, 0x40, 0x01, 0xC0, 0x80, 0x41, 0x01, 0xC0, 0x80, 0x41, 0x00, 0xC1, 0x81, 0x40, 0x00, 0xC1, 0x81, 0x40, 0x01, 0xC0, 0x80, 0x41, 0x00, 0xC1, 0x81, 0x40, 0x01, 0xC0, 0x80, 0x41, 0x01, 0xC0, 0x80, 0x41, 0x00, 0xC1, 0x81, 0x40, 0x01, 0xC0, 0x80, 0x41, 0x00, 0xC1, 0x81, 0x40, 0x00, 0xC1, 0x81, 0x40, 0x01, 0xC0, 0x80, 0x41, 0x00, 0xC1, 0x81, 0x40, 0x01, 0xC0, 0x80, 0x41, 0x01, 0xC0, 0x80, 0x41, 0x00, 0xC1, 0x81, 0x40, 0x00, 0xC1, 0x81, 0x40, 0x01, 0xC0, 0x80, 0x41, 0x01, 0xC0, 0x80, 0x41, 0x00, 0xC1, 0x81, 0x40, 0x01, 0xC0, 0x80, 0x41, 0x00, 0xC1, 0x81, 0x40, 0x00, 0xC1, 0x81, 0x40, 0x01, 0xC0, 0x80, 0x41, 0x01, 0xC0, 0x80, 0x41, 0x00, 0xC1, 0x81, 0x40, 0x00, 0xC1, 0x81, 0x40, 0x01, 0xC0, 0x80, 0x41, 0x00, 0xC1, 0x81, 0x40, 0x01, 0xC0, 0x80, 0x41, 0x01, 0xC0, 0x80, 0x41, 0x00, 0xC1, 0x81, 0x40, 0x00, 0xC1, 0x81, 0x40, 0x01, 0xC0, 0x80, 0x41, 0x01, 0xC0, 0x80, 0x41, 0x00, 0xC1, 0x81, 0x40, 0x01, 0xC0, 0x80, 0x41, 0x00, 0xC1, 0x81, 0x40, 0x00, 0xC1, 0x81, 0x40, 0x01, 0xC0, 0x80, 0x41, 0x00, 0xC1, 0x81, 0x40, 0x01, 0xC0, 0x80, 0x41, 0x01, 0xC0, 0x80, 0x41, 0x00, 0xC1, 0x81, 0x40, 0x01, 0xC0, 0x80, 0x41, 0x00, 0xC1, 0x81, 0x40, 0x00, 0xC1, 0x81, 0x40, 0x01, 0xC0, 0x80, 0x41, 0x01, 0xC0, 0x80, 0x41, 0x00, 0xC1, 0x81, 0x40, 0x00, 0xC1, 0x81, 0x40, 0x01, 0xC0, 0x80, 0x41, 0x00, 0xC1, 0x81, 0x40, 0x01, 0xC0, 0x80, 0x41, 0x01, 0xC0, 0x80, 0x41, 0x00, 0xC1, 0x81, 0x40

};

/*CRC Low Byte Value Table*/

const unsigned char auchCRCLo[] = {

0x00, 0xC0, 0xC1, 0x01, 0xC3, 0x03, 0x02, 0xC2, 0xC6, 0x06, 0x07, 0xC7, 0x05, 0xC5, 0xC4, 0x04, 0xCC, 0x0C, 0x0D, 0xCD, 0x0F, 0xCF, 0xCE, 0x0E, 0x0A, 0xCA, 0xCB, 0x0B, 0xC9, 0x09, 0x08, 0xC8, 0xD8, 0x18, 0x19, 0xD9, 0x1B, 0xDB, 0xDA, 0x1A, 0x1E, 0xDE, 0xDF, 0x1F, 0xDD, 0x1D, 0x1C, 0xDC, 0x14, 0xD4, 0xD5, 0x15, 0xD7, 0x17, 0x16, 0xD6, 0xD2, 0x12, 0x13, 0xD3, 0x11, 0xD1, 0xD0, 0x10, 0xF0, 0x30, 0x31, 0xF1, 0x33, 0xF3, 0xF2, 0x32, 0x36, 0xF6, 0xF7, 0x37, 0xF5, 0x35, 0x34, 0xF4, 0x3C, 0xFC, 0xFD, 0x3D, 0xFF, 0x3F, 0x3E, 0xFE, 0xFA, 0x3A, 0x3B, 0xFB, 0x39, 0xF9, 0xF8, 0x38, 0x28, 0xE8, 0xE9, 0x29, 0xEB, 0x2B, 0x2A, 0xEA, 0xEE, 0x22, 0xE2, 0xE3, 0x23, 0xE1, 0x21, 0x20, 0xE0, 0xA0, 0x60, 0x61, 0xA1, 0x63, 0xA3, 0xA2, 0x62, 0x66, 0xA6, 0xA7, 0x67, 0xA5, 0x65, 0xA4, 0xA4, 0x6C, 0xAC, 0xAD, 0x6D, 0xAF, 0x6F, 0x6F, 0xAE, 0xAE, 0xEB, 0x2B, 0x79, 0xBB, 0x7A, 0xBA, 0x6B, 0x7F, 0xB7, 0xB7, 0xB7, 0xB6, 0x72, 0xB2, 0xB3, 0x73, 0xB1, 0x71, 0x70, 0xB0, 0x50, 0x90, 0x91, 0x51, 0x93, 0x53, 0x52, 0x92, 0x56, 0x56, 0x57, 0x97, 0x55, 0x95, 0x94, 0x54, 0x9C, 0x5C, 0x5C, 0x55, 0x55, 0x94, 0x54, 0x9C, 0x5C, 0x5C, 0x55, 0x55, 0x95, 0x94, 0x54, 0x9C, 0x5C, 0x55, 0x56, 0x56, 0x56, 0x57, 0x97, 0x55, 0x95, 0x94, 0x54, 0x9C, 0x5C, 0x5C, 0x55, 0x55, 0x95, 0x94, 0x54, 0x9C, 0x5C, 0x5C, 0x55, 0x56, 0x56, 0x56, 0x57, 0x55, 0x95, 0x94, 0x54, 0x9C, 0x5C, 0x5C, 0x55, 0x55, 0x55, 0x54, 0x55, 0x55, 0x55, 0x95, 0x94, 0x54, 0x54, 0x5C, 0x5C, 0x55, 0x55, 0x55, 0x55, 0x55, 0x55, 0x54, 0x56, 0x57, 0x55, 0x55, 0x55, 0x54, 0x54, 0x54, 0x56, 0x55, 0x55, 0x55, 0x55, 0x54, 0x54, 0x54, 0x54, 0x56, 0x55, 0x55, 0x55, 0x55, 0x54, 0x54, 0x54, 0x54, 0x54, 0x54, 0x54, 0x56, 0x55, 0x55, 0x55, 0x55, 0x55, 0x54, 0x54, 0x54, 0x54, 0x56, 0x55, 0x55, 0x55, 0x55, 0x55, 0x54, 0x54, 0x54, 0x54, 0x54,



0x5D, 0x9D, 0x5F, 0x9F, 0x9E, 0x5E, 0x5A, 0x9A, 0x9B, 0x5B, 0x99, 0x59, 0x58, 0x98, 0x88, 0x48, 0x49, 0x89, 0x4B, 0x8B, 0x8A, 0x4A, 0x4E, 0x8E, 0x8F, 0x4F, 0x8D, 0x4D, 0x4C, 0x8C, 0x44, 0x84, 0x85, 0x45, 0x87, 0x47, 0x46, 0x86, 0x82, 0x42, 0x43, 0x83, 0x41, 0x81, 0x80, 0x40

};

```
/*_____
CRC verification
_____*/
unsigned int crc16(unsigned char *puchMsg, unsigned char usDataLen)
ł
unsigned char uchCRCHi = 0xFF; // High CRC byte initialization
unsigned char uchCRCLo = 0xFF; // Low CRC byte initialization
unsigned int uIndex;
                         // Index in CRC cycle
While (usDataLen --)//Transfer message buffer
ł
 uIndex
         = uchCRCHi ^ *puchMsg++ ; // Calculate CRC
 uchCRCHi = uchCRCLo ^ auchCRCHi[uIndex];
 uchCRCLo = auchCRCLo[uIndex];
}
return (uchCRCHi << 8 | uchCRCLo);
```

}

Search module:

You can listen to port 9999 using UDP protocol within the local area network. The module will periodically broadcast its name, remote IP, and remote port in the following format: name: m1, rip: 192.168.0.8, rpt: 23

You can set the computer to the IP of the remote host, open the corresponding remote port connection module using UDP protocol, and reset the parameters. You can also log in to the module's webpage directly based on the module IP in the broadcast.

Common problems with WJ288

1. How to determine the status of a module based on lighting

The **light** is on **twice** for **1 second**: the module is waiting for the configured AP mode and can be connected to the module's WiFi 8 network settings parameters using a mobile phone.

The **light** is on **once** every **1** second: the module is currently connected to WiFi. If it cannot be connected for a long time, please reset the WiFi parameters of the module.

The light is on once every 5 seconds: the module has been connected to WiFi and is working normally.

2. Cross network segment issues

If the IP of the device and the communicating PC are not in the same network segment and are directly connected via Ethernet or under the same sub router, then the two cannot communicate at all.

give an example:

Device IP: 192.168.0.7

Subnet mask: 255.255.255.0

PC's IP: 192.168.1.100

Subnet mask: 255.255.255.0

Due to the device's IP being 192.168.0.7, it is unable to log in to the device's webpage or ping it on the PC. If you want the two to communicate, you need to set the subnet mask of the device and PC, as well as the subnet mask



on the router, to 255.255.0.0, so that you can log in to the module webpage.

3. The device can ping, but the webpage cannot be opened

There may be several reasons for this:

1) The device has set a static IP address that conflicts with the IP addresses of existing devices in the network

2) The HTTP server port has been modified (default should be 80)

3) Other reasons

Solution: Reset the device to an unused IP address; Restore factory settings or enter the correct port when opening the browser.

4. Every once in a while, there is a disconnection and reconnection

Every once in a while, there will be a phenomenon of disconnection and reconnection

Reason: There is an issue of IP address conflict between the serial server and other devices

5. Communication is abnormal, network connection cannot be established, or search cannot be found

The firewall of the current computer needs to be turned off (in the Windows firewall settings)

Three local ports must not conflict, meaning they must be set to different values. Default values are 23, 26, and 29

Having illegal MAC addresses, such as full FF MAC addresses, may result in inability to connect to the target IP address or duplicate MAC addresses.

Illegal IP addresses, such as network segments that are not in the same network segment as the router, may not be able to access the external network.

6. Hardware problem search

Poor power supply from the power adapter or poor contact of the plug

If the power light and network port light are not on, it means there is no power supply or the hardware is broken Dimensions: (Unit: mm)

1. The size of the regular blue flame-retardant shell (unit: mm) can be installed on a standard DIN35 guide rail



2. Metal shell size: (unit: mm)





guarantee:

Within two years from the date of sale, if the user complies with the storage, transportation, and usage requirements and the product quality is lower than the technical specifications, it can be returned to the factory for free repair. If damage is caused due to violation of operating regulations and requirements, device fees and maintenance fees shall be paid.

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Version number: V1.2 Date: January 2024