DTECH

USB to RS232 485 serial port pin module

Please read the product manual carefully before using the product.

I. Product Description

With the continuous development of PC devices, USB interfaces are gradually replacing various low-speed peripheral interfaces of old PCs. However, many important parts use USB to RS232/485 converters to achieve this. Data transmission between PC and RS232/485 device. This universal USB to RS232/485 converter does not require an external power supply and is compatible with the RS232/485 standard. It can convert single-ended USB signals into RS232/485 signals. The converter has a zero-delay automatic transceiver conversion chip inside, which is unique The I/0 circuit automatically controls the direction of data flow. It can realize half-duplex (RS485) mode conversion and full-duplex (RS232) mode conversion, plug and play. The converter is suitable for all existing communication software and interface hardware. Products are widely used in industrial automation control systems, access control systems, attendance systems, card swiping systems, building automation systems, power systems, and data acquisition systems.
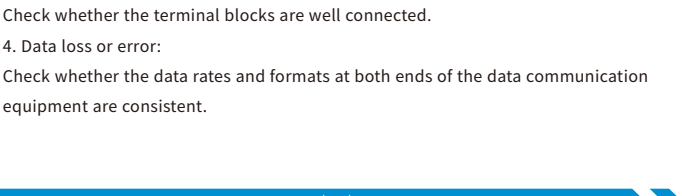
II. Specifications

1. A USB to RS232 485 serial communication module, a product suitable for industrial equipment communication.
2. Full-speed USB device interface design, compatible with USB V2.0/V1.1.
3. RS232 communication baud rate reaches 460800bps, full-duplex communication mode.
4. RS485 communication baud rate reaches 10Mbps, half-duplex communication mode.
5. The product supports output voltages of 3.3V and 5V, and has a signal indicator light for sending and receiving signals to control the communication status.
6. Circuit integrated ESD protection: ±20KV IEC1000-4-2 air gap discharge,
   ±15KV IEC1000-4-2 contact discharge.
7. The product is suitable for industrial equipment such as cash register systems, card readers, CNC machine tools, and cutting plotters.
8. Support Win xp/Win7 and above/Mac 10.15 and above/Linux operating system.

III. Interface Description

Number	Ports and other definitions	Illustrate
1	RS485_A	RS485 signal data transmission
2	RS485_B	RS485 signal data reception
3	232_TXD	RS232 signal data transmission
4	232_RXD	RS232 signal data reception
5	GND	Signal reference ground/ power output ground
6	CTS	CTS handshake signal
7	RTS	RTS handshake signal

IV. Schematic Diagram Of Product Connection

V. Product Accessories

1. Product 1pcs
2. Dupont line 1pcs

VI. Troubleshooting

1. A "question mark" or "exclamation mark" will appear after the serial port (COM): This means the driver was not installed correctly. Please delete the project and install it.

2. Even if the driver is installed successfully, the device cannot work:
If the adapter is installed on COM5, reassign it to COM1, 2, 3 or 4. It is possible that the computer only scans a limited number of COM ports (e.g. 3 or 4) and therefore the computer does not recognize the COM5 port with this limitation until the COM port is reassigned.

3. Data communication failed:
Check whether the USB interface wiring is correct.
Check whether the TTL output interface wiring is correct.
Check whether the terminal blocks are well connected.

4. Data loss or error:
Check whether the data rates and formats at both ends of the data communication equipment are consistent.

VII. MS series serial port line driver operation guide

Scan the QR code included with the product to download and install the driver through the official website.

Step 1: Download the driver installation package, click on the MS3020drive.zip compressed package, and decompress it.

Step 2: After decompression, as shown in the figure below, enter the Windows folder and double-click the application with the windows suffix.

Step 3: The installation dialog box pops up, click Next and install until completed.

Step 4: After the installation process is completed, click Finish in the dialog box to end the installation.

Step 5: Connect the product device to the computer and check whether the port number is displayed in the device manager.

> Monitors
> Network adapters
> Ports (COM & LPT)
>   MacroSilicon USB Serial Ports (COM4)
>   MacroSilicon USB Serial Ports (COM5)

Win7/Windows Server 2008 installation precautions

Windows Server 2008 will pop up an unverifiable driver provider message on some models. You need to manually click "Install this driver software anyway", as shown in the following figure:

If WinT and Server2008 drivers still display signature errors (yellow marks), you need to install two WinT patches:
windows6.1-kb4474419-v3-x64.msu, windows6.1-kb4490628-x64.msu, you need to restart the computer after installing the patch. The patch directory is "Win7 Server 2008 Patch".

Product Warranty Card

Customer Information

Model:	
Date of purchase:	
User telephone:	
User address:	
Distributor:	
Agency address:	
User telephone:	Dealer stamp valid

Intenance Records

Repair times	Date	Fault	Treatment measures	Repair won NO.

Electronic products are guaranteed for one year, and other products are guaranteed for two years. Damage caused by human factors or product burnout caused by improper operation is not included in the scope of warranty.