

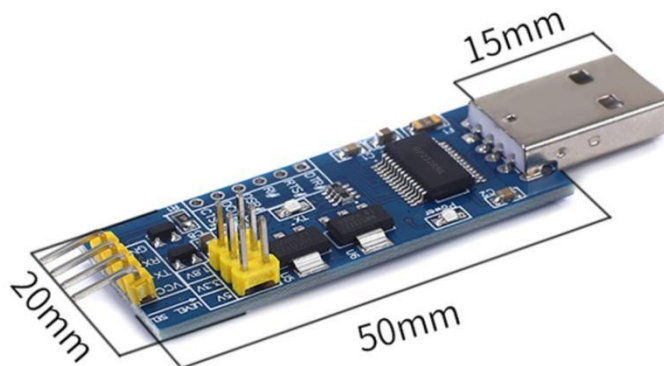
Serial port module USB to TTL 5V/3.3V/1.8VLevel

General description:

TCUS2 Module adoption GP232RNL The main control chip has fast speed and good stability. TCUS2 support Windows XP/WIN7/WIN8/WIN10/WIN11 32/64Bit system, stable speed can be reached 3Mbps (921600 Taxi3 Double). Power supply VCC And signal level (Including flow control feet CTS/RTS/DTR/RI/DCD) Available in 5V/3.3V/1.8V Switch freely and adapt to the system of different voltages. Module integrated power supply (Blue), receive (Green), send (Red) Three indicator lights. On-board 500mA Self-recovery fuse, overcurrent/It is automatically disconnected when the short circuit is short, which effectively protects the computer security. TCUS2 The module has a strong power supply capacity and maximum output. 500mA The current can drive most of the single-chip microcomputer system boards. At the same time, the protection diode is also integrated, and the occasional abnormal voltage of the signal line will not damage the module. In addition, the module is introduced CTS/RTS/DSR/RI/DCD The signal pin can easily carry out hardware flow control. TCUS2 The module is small in size and has high integration. PCB Only 20*50mm, Only occupy one. Universal serial bus The width of the interface, even Universal serial bus The very tight distance to the computer does not affect the insertion of other devices.

Module size diagram:

• 尺寸图

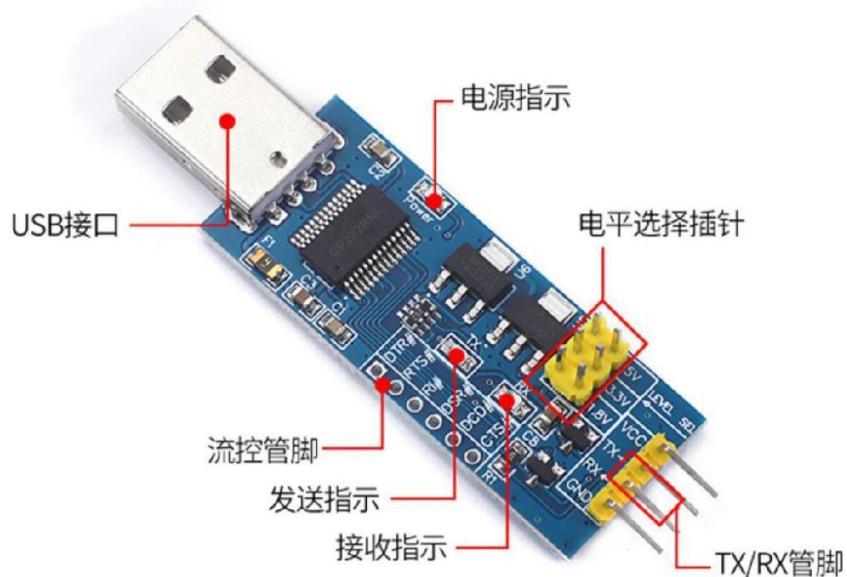


Catalogue

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1. Description of functional modules

• 功能模块说明



1.1 Pin function

1.1.1 The pins that must be connected for normal communication

Level selection pin: used to select signal and power supply VCC pin level, must be connected 5V or perhaps 3.3V/1.8V. One of

TX: Serial data sending pin (Refers to the data outflow of the module itself. →, Corresponding to external equipment RX. Data reception.)

RX: Serial data receiving pin (Refers to the data input of the module itself. ←, Corresponding to external equipment TX. Data transmission.)

GND:Power supply(GNDIt must be connected and must not be wrongly connected, otherwise the device or serial module may be damaged.)

1.1.2 Select

The following pins are not necessary for communication, Decide whether to connect or not according to your own needs.

VCC:Power output(The voltage is determined by the level selected by the jumper cap, and the maximum load shall not exceed500mA, Propose300mABelow)

Flow control pin:includingRTS#/CTS#/DTR#/RI#/DSR#/DCD#, It is used to support hardware flow control, which is generally not used.

5V:5VPower output(Comes fromUSB, The maximum load shall not exceed500mA, Propose300mABelow).

3.3V:3.3VPower output(Comes fromLDO, The maximum load shall not exceed500mA, Propose300mABelow)

Warm reminder:

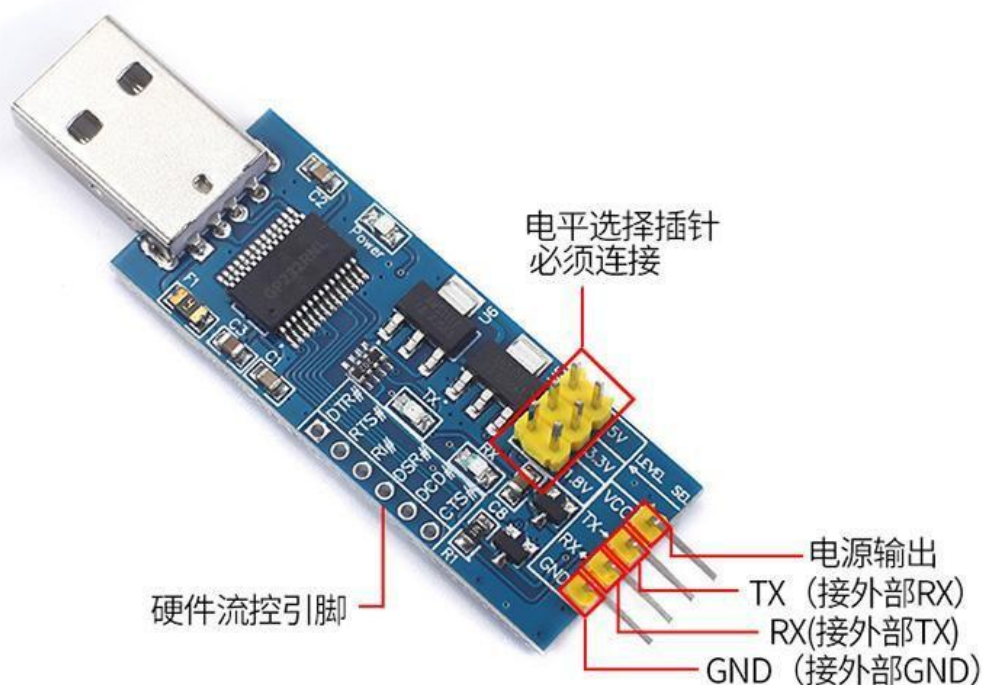
This module can support switching between signal pins and power pins at the same time. 5V/3.3V(UseVCCExternal power supply, signal foot andVCCThe level is the same), It can also support different levels of signal and power supply. (Use5V/3.3V/1.8VExternal power supply to the feet). During factory testing, the level is selected by default. 3.3V.TX/RXConnect directly and remove it when you use it.

Notes:

- 1.This is5V/3.3V/1.8VTTLLevel serial port, please do not connect.RS-232Level equipment(+5VArrive+-15V)
- 2.The load of this module shall not exceed500mA, Otherwise, the module or computerUniversal serial busThere is a risk of overload damage(Communication only needs toGND/TX/RX Three Thread)

2. Connection diagram

• 连线示意图



Notes:

1. Confirm the level and select the pin connection. (5V/3.3V/1.8V, Must and can only be connected to one)
2. VCCThe pin is not necessary for communication, but it can not be connected.
3. VCCIt can supply power to external equipment, and the load cannot exceed500MA
4. TX-DThe pin is isolated with a reverse diode. TX, BurnSTCStand-alone use
5. This isTTLLevel serial port (5V/3.3V/1.8V) Can't connectRS-232Level equipment (+-15V)

3. Test method

- 1.The module is plugged into the computer, and the blue power indicator light is on.
- 2.Install the driver and check the serial number from the device manager.

3. The computer opens the serial port assistant and selects the corresponding serial number.
4. Enter any content in the sending area. Select the text mode.
5. Connect directly with a jumper cap. TXAndRX, That is to say, the data sent is returned directly and received spontaneously.
6. Receiving area(Select the text mode)Seeing the returned content shows that the serial port module is working normally.

4. Contact us

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