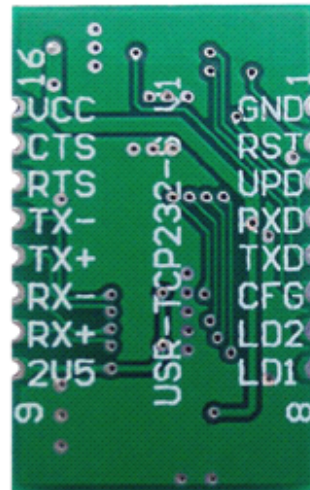
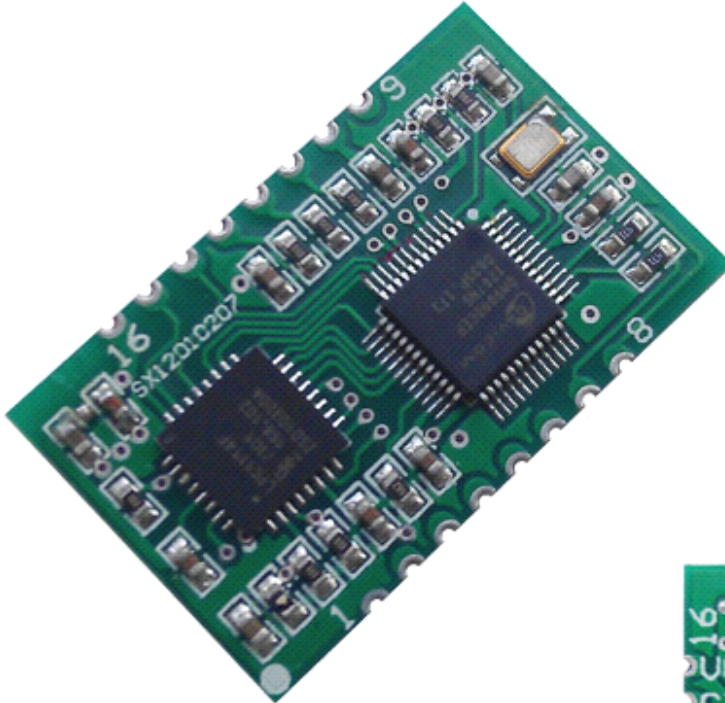


SMT type Serial to TCP/IP module (USR-TCP232- S)

Hard version: V1.0

File version: V1.0



Jinan USR IOT Technology Co., Ltd professionally focused on serial equipment to network, wired RJ45 network, WIFI, GPRS, ZIGBEE, Welcome new and old customers consult and purchase.

We can provide customized service function, software 100 sets, hardware 200 sets.

This module function is the same as **USR-TCP232-T**, just lacking net port seat and power supply chips, external interface changed from pin to stamp hole, details of specific use please refer to **USR-TCP232-T**.

1. System Characteristic

TCP/IP serial protocol converter USR-TCP232-S can be used to transfer TCP or UDP network packets with RS232 interface data, achieving transparent transmission. This equipment has small size, low power consumption, carrying the ARM processor, quick speed, high stability.

This is a multifunctional embedded Ethernet serial data conversion module. Its internal integration of the TCP/IP protocol stack, the user can use it to finish embedded equipment network function easily, saving manpower material resources and developing time, making the product be more quickly put into the market, enhancing the competitiveness.

Module integrated 10/100M adaptive Ethernet interface, serial communication highest baud rate as high as 230.4 Kbps, providing the TCP Server, TCP Client, UDP work mode, configuring easily through the software.

Super performance, high speed to send data without losing packet.

Pin standard 2.54 mm spacing, module size 33*20 mm.

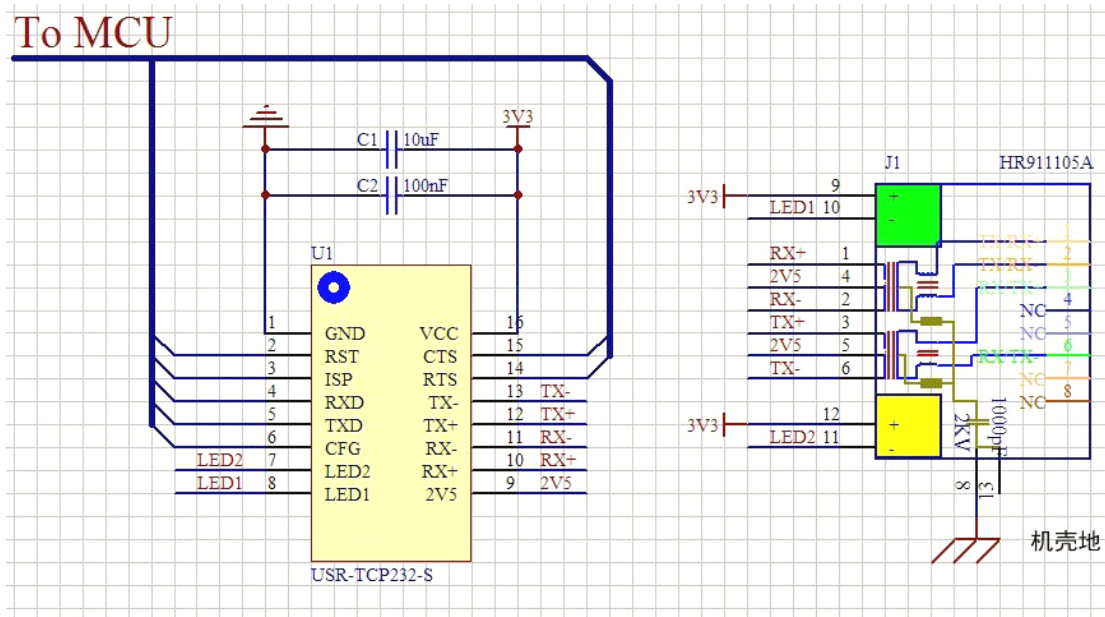
Provide packaging library (principle diagram and PCB), user-friendly design.

2. Hardware Interface

Product interface as below:

Number	Name	Description
1	GND	Ground
2	RST	Offering the module 200 ms low level can reset the module. Power on module, itself can reset. Suggest this foot connected to user MCU IO port, in specific cases MCU controls module reset.
3	ISP	Module upgrade control pin, ground for upgrade mode
4	RXD	Module serial data receiving pin
5	TXD	Module serial data sending pin
6	CFG	Module serial configuration control feet, configurate module through the serial port, connect CFG to GND; configurate mode through the network, CFG free
7	LED2	Network data lamp, connected to VCC by LED, no need to meet any current limiting resistors

8	LED1	The network link state lamp, connected to VCC by LED, don't need to meet any current limiting resistors
9	2V5	Network transformer control voltage output, joint the network transformer center tap
10	RX+	Receive Data +
11	RX-	Receive Data -
12	TX+	Transceiver Data +
13	TX-	Transceiver Data -
14	RTS	NC spare pin
15	CTS	NC spare pin
16	VCC	Module power supply, 3.3 V @ 150MA



The schematic diagram chart and PCB of the module is in the cd.

3. Contact Us

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