



性能稳定压倒一切

485&TTL-USB

接口转换器使用说明书

功能参数:

[TTL接口]

电平类型: 3.3V/5V TTL电平可选
波特率: 标准速率50bps~3Mbps

[485接口]

接口类型: 点到点/点到多点二线半双工
波特率: 标准速率50bps~3Mbps
负载能力: 可连接32个RS485设备
传输距离: 0~1200M, 波特率9600可达1200米, 921600可达300米

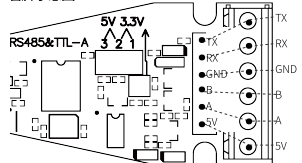
传输介质: 屏蔽双绞线或双绞线
输出电源: 5V
传输距离: USB端5米, TTL端5米, RS485端1200米
指示灯: 红光-电源, 绿光-TX, 蓝光-RX
接口形式: USB端—A类公头,
TTL&485端—螺钉凤凰端子/插针

标准: 符合USB1.0标准
符合1.1、2.0标准
符合EIA/TIA TTL标准
符合EIA RS-485标准

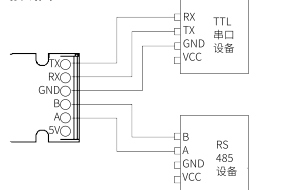
驱动程序: 支持32/64位Windows操作系统
支持32/64位 Linux系统
支持32/64位MAC OS系统
支持3.1及以上版本的Android系统

工作温度: -40~85°C

管脚示意图



接线图

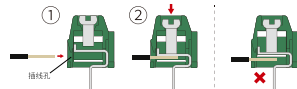
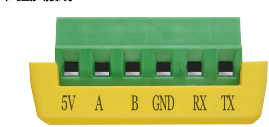


注意: TTL收发数据线要交叉接。

RS485&TTL转换器的管脚说明

连接器	管脚	定义	功能
6pin 螺钉 凤凰头 /6pin 插针	1	TX	TTL数据发送
	2	RX	TTL数据接收
	3	GND	信号地/电源地
	4	B	RS485数据线B
	5	A	RS485数据线A
	6	5V	5V电源输出
3pin 插针	1		如果单片机的TTL串口电平是3.3V, 短接1、2脚;
	2		
	3		如果单片机的TTL串口电平是5V, 短接2、3脚;

凤凰头接线



接线时先用配的螺丝刀逆时针把接线口拧下来, 然后把线头放进接线口顺时针向上拧紧。

故障定位

- 无法识别串口号:
进入电脑的设备管理器, 查看端口(COM)项里是否已识别到串口号, 如果没有, 需要安装CH340T的驱动程序。
- 无法通信:
A、查看串口的配置是否符合外接设备的要求;
B、是否打开了串口;
C、波特率是否正确;
D、无端勾选RTS、DTR;
E、命令和协议格式是否正确;
F、外围设备供电是否正常;
G、接线是否正确;
H、发送命令时观察发送和接收的指示灯是否闪烁;
I、如果以上方法仍然无法通信, 请自行用示波器查看波形进行定位;

合格证

产品名称: RS485&TTL转接头
型号: 485&TTL-USB
生产日期:
执行标准: USB1.0、1.1、2.0标准
EIA/TIA TTL标准
EIA RS-485标准
电话: 0755-86503881
技术热线: 18588203979
生产厂家: 深圳市摩天射频技术有限公司
地址: 深圳市宝安区凤凰智谷大厦A座410



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保修卡

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型号:
产品型号:
购买平台:
购买日期:
故障原因:
客户姓名:
联系电话:
客户地址:

【保修期与条款】

- 产品自收货日期起, 质保一年;
- 以下情况不在保修之列, 但可协商付费维修:
* 人为损坏或使用不当导致的异常;
* 擅自拆卸、改装或维修导致的损坏;
* 电子组件脏污、损坏等;
- 保修时候请务必留下您的电话及故障描述。



Stable performance overrides everything

MyAntenna 485&TTL interface converter instructions

Function Parameter:

[TTL interface]

Electrical level type: 3.3V and 5V TTL electrical level are optional
Baud rate : Standard rate 50bps~3Mbps

[485 interface]

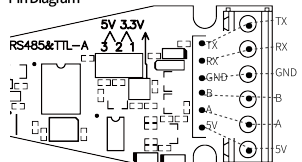
Interface type : point-to-point/point-to-multipoint two-wire half-duplex
Baud rate : Standard rate 50bps~3Mbps
Load capacity: 32 RS485 devices can be connected
Transmission distance : 0~1200M (with 9600 baud rate can up to 1200 meters, 921600 can up to 300 meters)
Transmission medium : shielded twisted pair or twisted pair

Output power: 5W
Transmission distance: 5 meters at the USB end, 5 meters at the TTL end, and 1200 meters at the RS485 end
Indicator lights: red light-power, green light-TX, blue light-RX

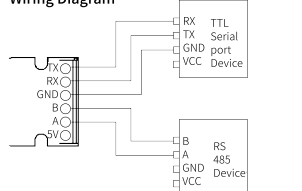
Interface form: USB end—A type male
TTL and 485 end—Screw Phoenix Terminal/Pin Standard:
Compliant with USB1.0 standard
Compliant with 1.1 and 2.0 standard
Compliant with EIA/TIA TTL standard
Compliant with EIA RS-485 standard

Driver:
Support 32/64 bit Windows operating system
Support 32/64 bit Linux system
Support 32/64 bit MAC OS system
Support Android system of version 3.1 and above
Working temperature: -40~85°C

Pin Diagram



Wiring Diagram

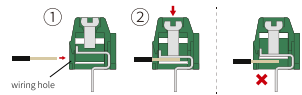
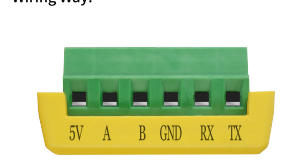


Note: The TTL transceiver data lines must be cross-connected.

Pin's explanation of RS485&TTL converter

Connector	Pin	Definition	Function
6 pin screw phoenix head/ 6 pin	1	TX	TTL data transmission
	2	RX	TTL data reception
	3	GND	Signal ground/ power ground
	4	B	RS485 data line B
	5	A	RS485 data line A
	6	5V	5V power output
3 pin	1		If the TTL serial port level of the single chip microcomputer is 3.3V, short connect pins 1 and 2;
	2		
	3		If the TTL serial port level of the single chip microcomputer is 5V, short connect pins 2 and 3.

Wiring Way:



Unscrew the wiring port counterclockwise by screwdriver, put the thread into the wiring port and tighten clockwise.

Fault location

- Unable to recognize the serial port number:
Enter the computer's device manager, check whether the serial port number has been recognized by the port (COM) item. If not, you need to install the driver of CH340T.
- Unable to communicate

- Check whether the configuration of the serial port meets the requirements of the external device;
- Whether the serial port is opened;
- Whether the baud rate is correct;
- No need to tick RTS, DTR;
- Whether the command and protocol format are correct
- Whether the power supply of peripheral equipment is normal;
- Whether the wiring is correct;
- Observe whether the indicator lights of sending and receiving flash when sending commands;
- If the above method still can not communicate, please use the oscilloscope to view the waveform to locate;

Certificate of conformity

Product name: RS485&TTL adapter
Model:
Production Date:
Executive standard: USB1.0、1.1、2.0 standard
EIA/TIA TTL standard
EIA RS-485 standard
Telephone: 0755-86503881
Technology Hotline: 18588203979
Manufacturer: MyAntenna Technology Co.,Ltd
Address: Building A, 410, Phoenix Smart Valley, No.50 Tiezi Road, Xixiang Street, Bao'an District, Shenzhen City.



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For more product information, please visit www.imyantenna.com

Warranty Card:

Product name:
Product model:
Purchase platform:
Purchase date:
Cause of issue:
Customer's name:
Contact number:
Customer's address:

- [Warranty period and terms]
- The product is guaranteed for one year from the date of receipt;
 - The following conditions are not covered by the warranty, but can be paid for repairs; Abnormalities caused by human damage or improper use; Damage caused by unauthorized disassembly, modification or repair; Electronic components are dirty, damaged, etc.
 - Please make sure to leave your phone and fault description during the warranty.