E810-RS485-U01 User Manual

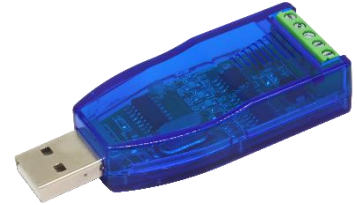## USB to RS485 serial converter

1 Overview

1.1 Introduction

E810-RS485-U01 is an intelligent universal interconversion converter that converts USB signals to RS485 signals. It is designed in accordance with universal standards. Transient suppression protection function to prevent internal chip damage caused by incompatible levels, with anti-lightning and anti-static impact, limited slope drive, effective suppression of interference; solve the superposition of effective and invalid signals on the transmission circuit, error-free data transmission. The rate is as high as 115200.

1.2 Function

● TVS transient suppression protection;

● Maximum baud rate of 115200;

● USB direct power supply without external power supply, stable performance;

● Connect with various 485 interfaces, the transmission distance up to 1200;

● With receiving and sending indicators to monitor the data transmission status;
● External 5v debugging power;

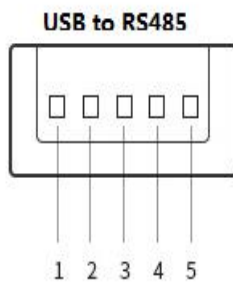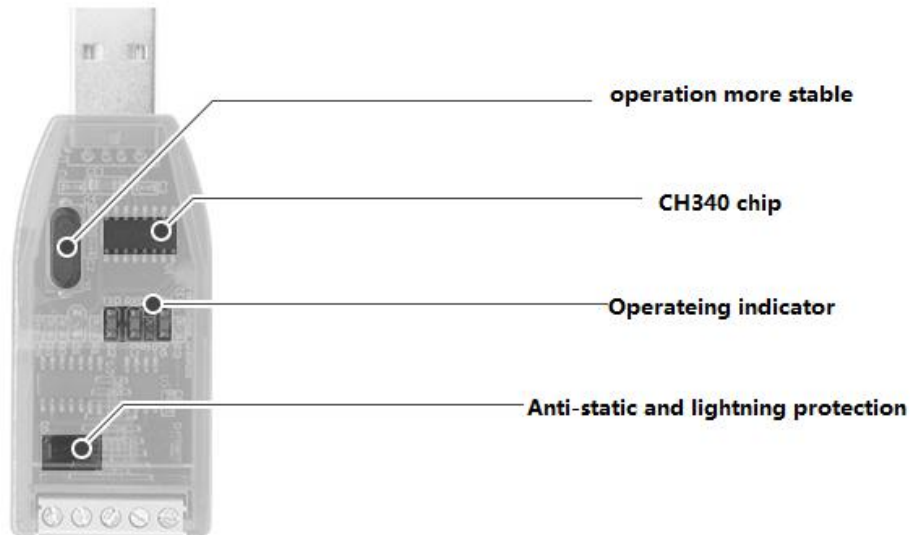● For win98, 2000, XP / Vista / Win7, 8 Linux and other systems.

2 Parameters

2.1 Operating parameters

Operating voltage	USB driver，5V
Serial baud rate	Max 115200
Distance	1200m
System	win98, 2000, XP/Vista/Win7,8 Linux
Operating temperature	-40～85℃
Operating humidity	5%～95%
Size	70×27×12mm

3 Pin definition

Product details

operation more stable

CH340 chip

Operateing indicator

Anti-static and lightning protection

USB to RS485

1 2 3 4 5

5P binding post	Indicator	Signal	Notes
1	VCC	Debugging product VCC（5V）	Need to plug in power supply for debugging product, othwise it is idle.
2	GND	Debugging product GND	
3	GND2	485 device GND	With real GND for RS485 device grounding is better. Without GND, it is idle.
4	B	485 device B（D-）	
5	A	485 device A（D+）	

4 Driver install

1) Install the driver: first insert the converter into the computer, then open the driver folder to find the driver of the corresponding operating system, and click the exe file to install it. When the driver is successfully installed, unplug the converter and plug it into the computer, the system will view a virtual serial port (such as: com5) in my computer device manager port to view Within 7, if the port number is too large it will affect the stability;

2) Set com port: set the virtual serial port number to the corresponding position of the software. If set to the COM port of the serial debugging software;

3) Connect the hardware line, send data, the indicator light flashes during communication, and the USB converter works normally;

Download drive from ：

http://www.jlink-tech.com/file/1/15902   12345

Revision history

Version	Date	Remark	By
1.0	2019-3-11	First version	All

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