USB<=>RS-485/TTL
E810-U15M Instruction Manual
Industrial Portable High Speed Converter

Chapter 1 Product Profile

With the continuous development of the industrial automation industry, the USB interface is gradually replacing the old PC's various low-speed peripheral interfaces, however, many devices in the current industrial environment are still designed using RS-485/TTL interfaces, so many users use the USB to RS-485/TTL converter to realize the data transmission between the PC and the serial devices.

E810-U15M is a universal USB to RS-485/TTL converter that converts single-ended USB signals to RS-485/3.3V TTL signals without the need for an external power supply.

E810-U15M interface converter can provide a reliable connection for point-to-point and point-to-multipoint communications, point-to-multipoint each converter allows the connection of 128 RS-485 interface devices, the device has a power indicator and data flow indicator for observing the status of the device, support for communication modes such as USB to RS-485, TTL data conversion between.

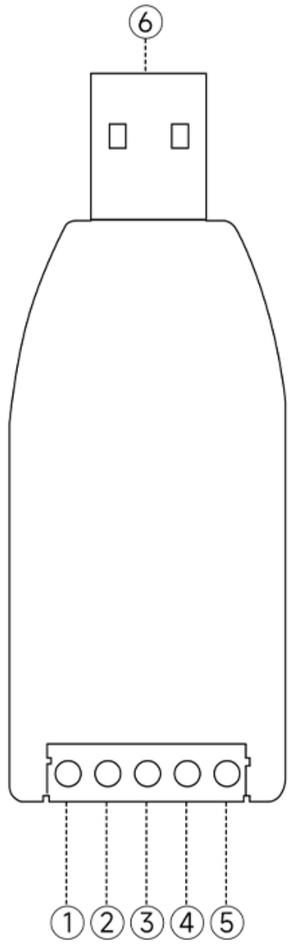
Chapter 2 Functional Characteristics

- USB interface adopts Type-A interface, convenient and easy to use, strong reliability
- Support 3.3VTTL full-duplex communication.
- Support two-wire RS-485 half-duplex communication.
- When the converter is connected to multiple devices or long-distance communication, a 120Ω matching resistor (1/4W) can be connected in parallel at the end of the line.

Chapter 3 Performance Parameters

USB Protocol Standards	USB2.0, Backward compatible with USB1.0, USB1.1
USB Interface Standard	type-A interface
RS-485 Interface Standard	2P terminal, half duplex
TTL Interface Standard	3P terminal, support 3.3V level
Baud Rate Range	RS-485：110~12Mbps
	TTL：110~12Mbps
	Support adaptive baud rate
Product Size	70×27×12mm
Product Weight	17±1g
Working Temperature And Humidity	-40~+85℃、5%~95%RH (No condensation)
Storage Temperature And Humidity	-40~+105℃、5%~95%RH (No condensation)

Chapter 4 Interface Definitions



Serial number	Name	Interface Description
1	A	Connect to RS485 A line
2	B	Connect to RS485 B line
3	GND	RS485/TTL common ground terminal
4	RXD	Connect to TTL TXD terminal
5	TXD	Connects to TTL RXD terminal
6	USB	USB 2.0 port

Chapter 5 Driver Installation

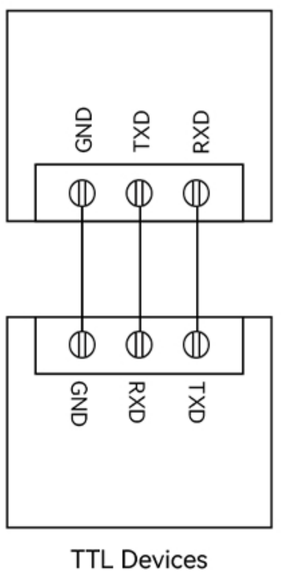
The product supports windows 10 or above drive-free use, you need to install the driver, you can go to our official website to download the corresponding product below.

Chapter 6 Baud Rate Considerations

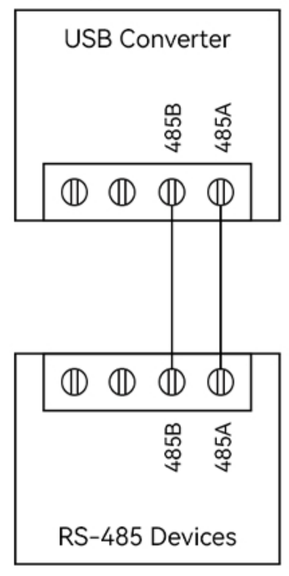
The product supports up to 12Mbps communication rate. Please note that the FT232H does not support 7M baud 9M baud, 10M baud and 11M baud rates.

Chapter 8 Schematic Diagrams Of Communication Connections

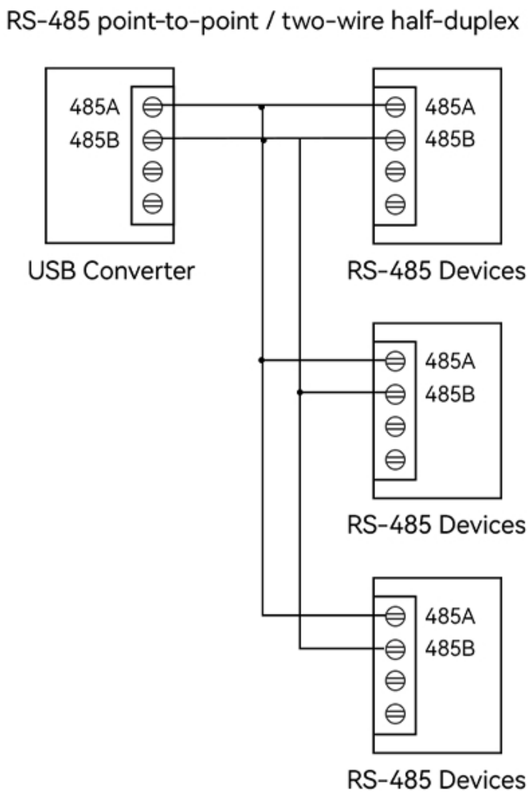
▸ USB to TTL Communication



▸ USB to RS-485 Conversion



▸ USB to RS-485 Conversion



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