

Industrial USB TO RS485 Bidirectional Converter, Onboard Original CH343G, Multi-Protection Circuits

USB TO RS485 Bidirectional Converter



Features At A Glance

- Support USB to RS485 bidirectional conversion
- Fast communication, stable and reliable, better compatibility

- Onboard TVS (Transient Voltage Suppressor), effectively suppress surge voltage and transient spike voltage in the circuit, lightningproof & anti-electrostatic
- Onboard resettable fuse and protection diodes, ensures the current/voltage stable outputs, provides over-current/over-voltage proof, improves shock resistance
- 3 LEDs for indicating the power and transceiver status



Specifications

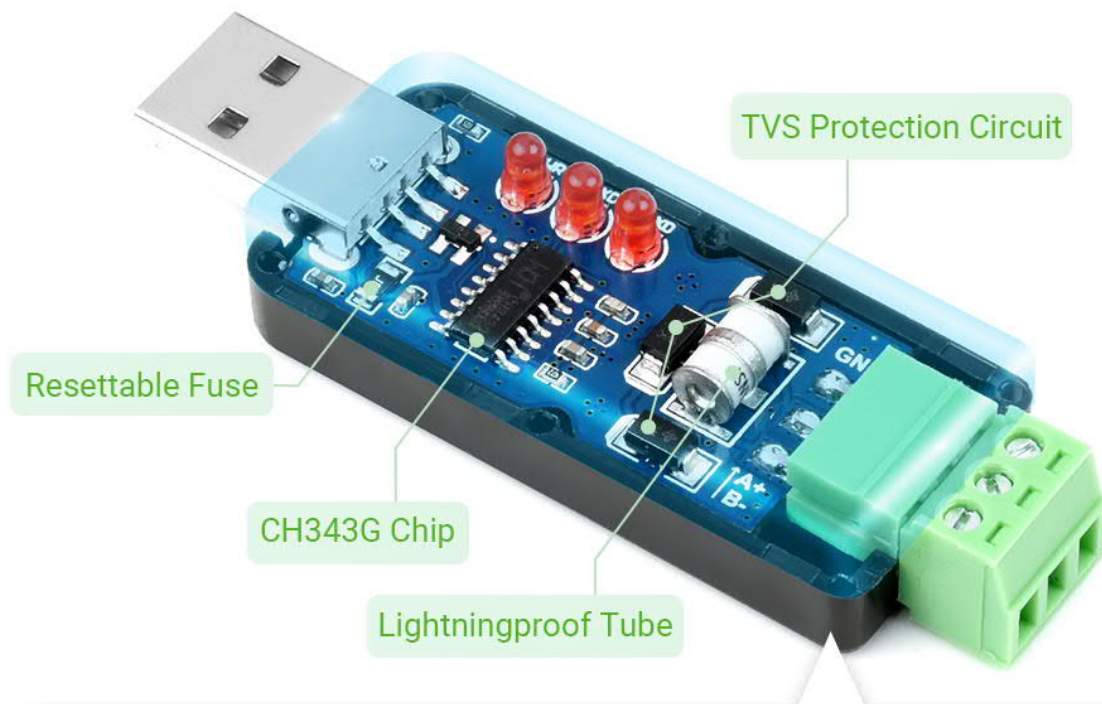
PRODUCT TYPE	Industrial Grade USB to RS485 converter
HOST PORT	USB
DEVICE PORT	RS485

BAUDRATE	300bps ~ 3Mbps	
USB	Operating voltage	5V
	Connector	USB-A
	Protection	200mA self-recovery fuse, ESD protection
	Transmission distance	About 5m
RS485	Connector	Screw terminal
	Pins	A+, B-, GND
	Direction control	Hardware automatic control
	Protection	600W lightningproof and surge-suppress, 15KV ESD protection (onboard 120R balancing resistor)
	Transmission distance	About 1.2km(low rate)
	Transmission mode	Point-to-multipoints (up to 32 nodes, it is recommended to use repeaters for 16 nodes or more)

LED INDICATORS	PWR	Red power indicator, light up when there is USB connection and voltage is detected
	TXD	Red TX indicator, light up when the USB port sends data
	RXD	Red RX indicator, light up when the device ports send data back
OPERATING ENVIRONMENT	Temperature	-15°C ~ 70°C
	Humidity	5%RH ~ 95%RH
OPERATING SYSTEM	Mac, Linux, Android, WinCE, Windows 11 / 10 / 8.1 / 8 / 7	

Onboard Original Chips

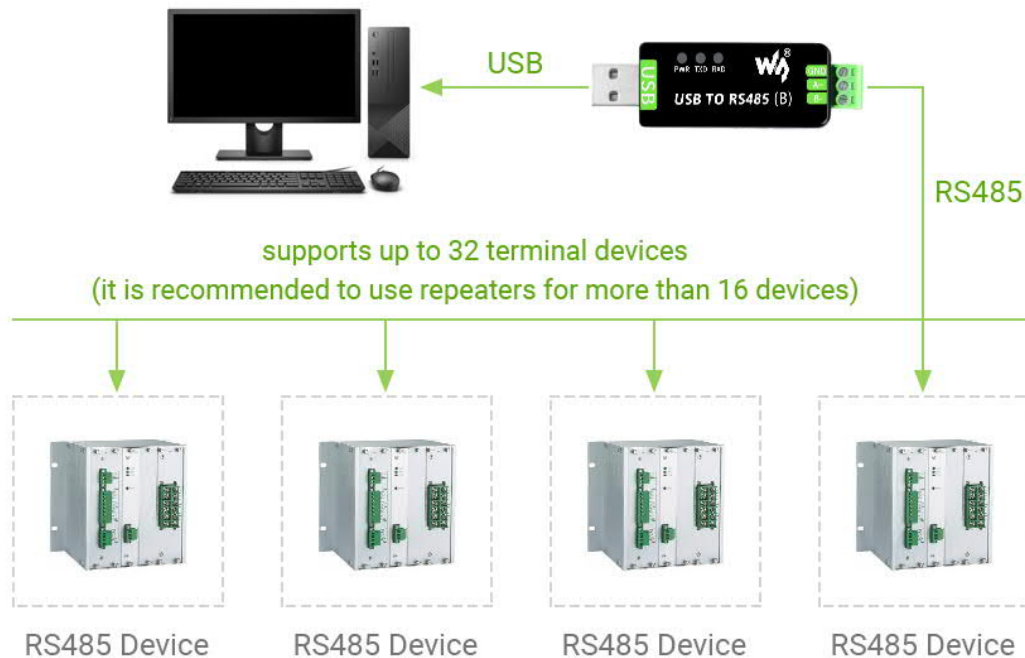
Onboard Original CH343G And SP485EEN Chips, Providing Better Stability And Compatibility, Built-In Lightningproof Tube, Resettable Fuse, ESD And TVS Protection Circuits, Etc.



Transmission Distance Up To 1.2km

The USB Signal Can Be Converted Into A Balanced Differential RS485 Signal And The Transmission Rate Is

Stable. The Reliable Speed Is 300bps ~ 3Mbps, The Transmission Distance Is About 1.2km For RS485, And About 5 Meters For USB.



Multi System Support

Supports Mac, Linux, Android, WinCE,
Win11/10/8.1/8/7/XP, Etc.



Working Status Indicators

Onboard 3 LEDs For Indicating The Power And
Transceiver Status



1

PWR: Light up Red
Power Connected

2

TXD: Blinking Red
Data Transmitting

3

RXD: Blinking Red
Data Receiving

Outline Dimensions

