

USB to 2-port RS485
Industrial Isolated Converter
Part no. 27646



The USB to 2-Port Isolated RS485 Converter is a robust, industrial-grade communication interface designed to seamlessly connect your PC or embedded system to multiple RS485 devices through a single USB port. Built with high-quality components and advanced isolation technology, this converter ensures reliable, interference-free data transmission in demanding industrial and commercial environments.

Dual Independent RS485 Ports

This converter features two fully independent RS485 channels, allowing you to simultaneously connect and communicate with multiple RS485 devices or networks from a single USB interface. Each port operates separately, supporting multi-drop RS485 networks with up to 32 devices per port (or more with repeaters). Two individual serial ports are created in Windows Device Manager.

Overall features

- Industrial grade strength
- DIN mount and screws
- Isolated power and signal lines
- Onboard TVS (Transient Voltage Suppressors)
- Built-in self-recovery fuse and protection diodes
- Fail-safe bias resistors
- Two RS485 ports
- Automatic Send Data Control
- Control LEDs for TX, RX and power
- Compatible with Modbus RTU/ASCII, BACnet
- Onboard 120 ohm terminal resistor
- Powered from USB port

To access technical support, please visit the U.S. Converters website at:
www.USconverters.com
Here you will find:

- Latest drivers and updates for download
- Technical tips
- Documentation
- Configuration support
- and much more...

Feel free to contact our technical support team at mail@usconverters.com with any issues.

Copyrights © U.S. Converters

SPECIFICATIONS	
Model number	27646
Operating system	Windows 11, 10, 8.1, 8 (32/64-bit), Windows Server 2016, Windows Server 2012 / R2, Windows 7 (32/64-bit), Windows Server 2008 R2, Vista (32/64-bit), Windows Server 2008 (32/64-bit), XP, Windows Server 2003 (32/64-bit), 2000, (all WHQL compliant). Windows RT as D2XX drivers only. • Linux (built into kernel 3.0.0-19 and above) • Mac OS 8, OS 9, OS X 10.3 to 10.9 and above • Android
Indication LEDs	Power, TX, RX
Baud rate	300-921,600bps
Chipset	FT232RNL
Power	5V from USB
Bias resistor	Yes
Interface	Screw terminals RS485
Cable	USB extension cable included
USB	USB 1.1, 2.0, 3.0 compliant
Isolation	700V continuous and 3500V spike. 200mA self-recovery fuse (USB).
ESD protection	15KV, 600W/ms
Standards	EIA/TIA RS-232/485
Installation	35mm standard DIN rail / screws
Handshake / flow control	Automatic Send Data Control
Certifications	CE, FCC, RoHS
Dimensions	81.9 × 54.0 × 32.0mm
Operating Temp.	-15°C to 70°C
Operating humidity	5% To 95% - No Condensation
Warranty	1-year Limited Warranty
ECCN	4A994.a
Schedule B	8471.80.1000
HTS	8517.18.0050





1

RXD: Blinking Blue
Data Receiving

2

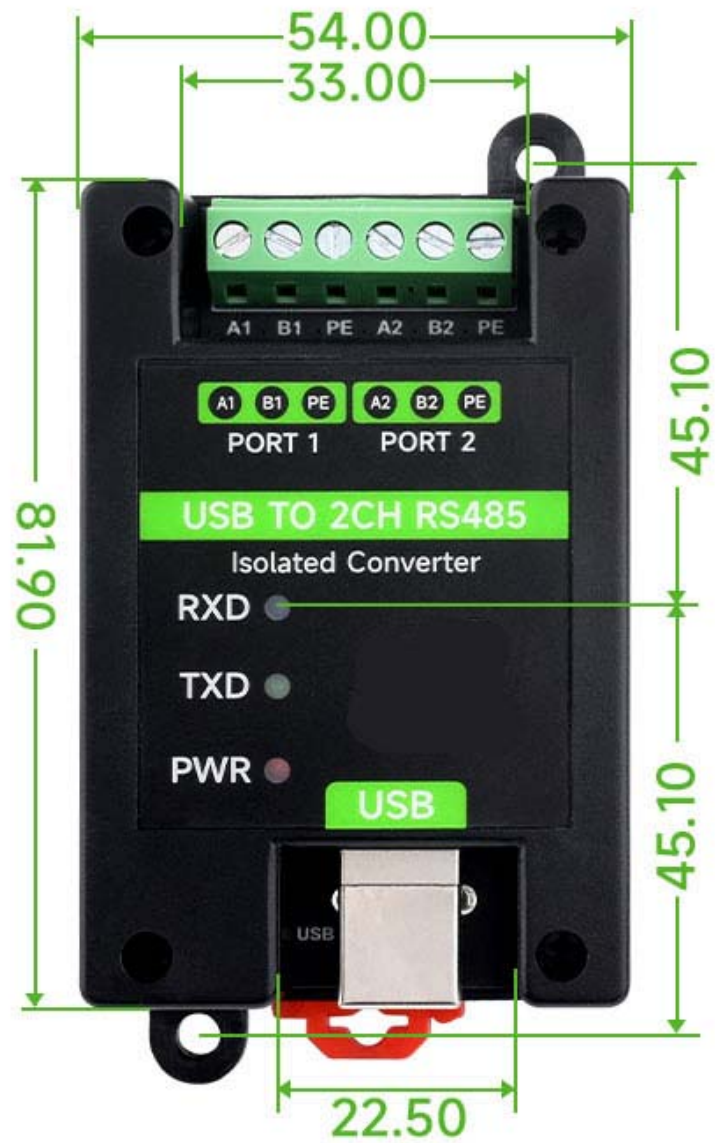
TXD: Blinking Green
Data Transmitting

3

PWR: Light up Red
Power Connected

4

USB&Power: Connecting
to the USB port of the host



Unit:mm