

BB-485USBTB-2W-A

BB-485USBTB2WLS-A

USB to RS-485 Miniature Converters



Features

- Connect RS-485 devices to your USB port
- RS-485 data rate up to 921.6 Kbps
- USB 2.0 (12 Mbps) compatible
- Convenient, quick inline installation
- Compact size fits into laptop bags; perfect for field service
- USB port-powered
- High retention USB port holds USB cables securely
- Removable terminal block for easy wiring
- Locked Serial number model versions
- USB cable included

Specifications

Serial Technology

- **RS-485 2-Wire** Data A(-), Data B(+), Ground
- **Connector** Removable terminal block (28 to 16 AWG)
- **Data Rate** Up to 921.6 Kbps

USB Technology

- **Connector** USB Type B female, high retention port (1.54kg (15N) pull force)
- **Standard** 2.0 (backward compatible)
- **Data Rate** 12 Mbps

Power

- **Source** USB port
- **Input Voltage** 5 V_{DC}
- **Consumption** ~ 0.5 W (low power device - draws less than 100 mA)

Software

- **Driver** FTDI Virtual COM Port (VCP) Driver
- **O/S** Windows 98, ME, 2000, XP, Vista, 7 (32/64), 8 (32/64), 10

Mechanical

- **Dimensions** 65.0 x 32.0 x 16.0 mm
- **Enclosure** In-line mounted, plastic
- **Weight** 104.3 g with USB cable

Environmental

- **Operating Temperature** 0 to +70 °C
- **Storage Temperature** -40 to +85 °C
- **Operating Humidity** 0 to 95% (non-condensing)

Meantime Between Failures (MTBF)

- **MTBF** 1869313 hours
- **MTBF Method** MIL 217F Parts Count Reliability Prediction

Approvals, Directives, Standards

- **Approvals** FCC, CE
- **Directives** 2014/30/EU – Electromagnetic Compatibility Directive
2011/65/EU amended by 2015/863/EU – Reduction of Hazardous Substances Directive (RoHS)
2012/19/EU – Waste Electrical and Electronic Equipment (WEEE)
- **Standards** EN 55032 Class A – Electromagnetic Compatibility of Multimedia Equipment – Emission Requirements
EN 55024 – Information Technology Equipment – Immunity Characteristics – Limits and Methods of Measurement
EN 61000-6 – Generic Immunity Dstandard for Residential, Commercial and Light-industrial Environments

Ordering Information

- **BB-485USBTB-2W-A** USB to RS-485 2-Wire Converter
- **BB-485USBTB2WLS-A** USB to RS-485 2-Wire Converter, Locked Serial Number

Accessories – sold separately

- **BB-USBAMB-3F** 0.9 m USB cable (one included)
- **BB-USBAMB-6F** 1.8 m USB cable

Dimensions

Unit: mm

