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ESIS
Industrial Electronics

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 – EmissionRequirements
EN 55024 – Information Technology Equipment – Immunity Characteristics – Limits and Methods of Measurement
EN 61000-6 – Generic Immunity Dtandard 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-USBAMBM-3F**   0.9 m USB cable (one included)
- **BB-USBAMBM-6F**   1.8 m USB cable
- **BB-TBKT6**   5-position, 3.5mm, terminal block, pluggable, 8A, 300V

Dimensions

Unit: mm

32.0

16.0

65.0