# 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

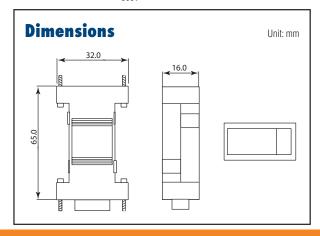- **BB-485USBTB-2W-A** — USB to RS-485 2-Wire Converter
- **BB-485USBTB2WLS-A** — USB to RS-485 2-Wire Converter, Locked Serial Number

### 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