

BB-USOPTL4DR-2

Isolated USB to RS-422/485 Converter



Features

- USB to RS-422/485 Converter
- 3 kV Isolation
- 921.6 Kbps Serial Data Rate
- DIN Rail Mounting
- USB Port Powered
- High Retention USB Connector, Plug-in Serial Terminal Block
- USB Cable Included

Specifications

Serial Technology

- **RS-485 2-Wire** Data A(-), Data B(+), Ground
- **RS-485 4-Wire** TDA(-), TDB(+), RDA(-), RDB(+), Ground
- **Connector** Removable terminal blocks, 12 to 28 AWG
- **Data Rate** Up to 921.6 Kbps
- **Isolation** 3 kV optical isolation

USB Technology

- **USB Compatibility** 2.0 (backward compatible)
- **USB Data Rate** 12 Mbps
- **Connector** Type B female, high retention (15 Newtons / 1.5kg-force withdrawal)
- **Windows O/S** 8.1 (32/64 bit), 10 (32/64 bit), 2008-r2 (32/64 bit), 2012 Server-r2 (32/64 bit)

Power

- **Source** USB port
- **Input Voltage** 5 V_{DC}
- **Consumption** ~2.5 W (high power device, draws >500 mA)

Mechanical

- **Dimensions** 84.5 x 119.1 x 29.3 mm
- **Enclosure** DIN rail mountable, plastic
- **Weight** 222.3 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)

- **BB-USOPTL4DR-2** 79551 hours
- **MTBF Calc. Method** Parts Count Reliability Prediction

Regulatory

- **FCC Class B, CISPR Class B (EN55022)**
This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference
(2) This device must accept any interference that may cause undesired operation

CE - Directives

2014/30/EC - Electromagnetic Compatibility
2011/65/EU amended by 2015/863/EU – Reduction of Hazardous Substances Directive (RoHS)
2012/19/EU - Waste Electrical and Electronic Equipment (WEEE)

CE - Standards

EN 55032: Class B - Electromagnetic Compatibility of Multimedia Equipment - Emission Requirements
EN 55024 - Information Technology Equipment - Immunity Characteristics
EN 61000-6-1 - Generic Immunity for Residential, Commercial, Light-Industrial Environments
EN 61000-6-3 A1 - Generic Emissions for Residential, Commercial, Light-Industrial Environments (Class B)

Ordering Information

- **BB-USOPTL4DR-2** Isolated USB to RS-422/485 Converter, 2 port

Accessories – sold separately

- **BB-USBAMBM-3F** 1 m USB cable (one included)
- **BB-TB5P508SR-2PK** Optional terminal block with strain relief, 2 pack
- **BB-TBKT2** (1) Replacement Terminal Block - 5-position, 5.08mm, 8A, 30

Dimensions

Unit: mm

