BB-USOPTL4DR-2

Isolated USB to RS-422/485 Converter



Features

- USB-serial conversion; Adds a COM port to your PC
- 3000 Volts optical isolation; 15 kV ESD protection
- RS-422/485 data rates up to 921.6 kbps
- DIN rail mount (panel mount option)
- USB bus powered no power supply required
- High retention USB port
- 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 3000 V optical isolation Isolation

Surge Protection 15 KV ESD

USB Technology

 USB Compatibility 2.0 (backward compatible) USB Data Rate

Connector Type B female, high retention (15 Newtons / 1.5kg-force withdrawal)

Windows 0/S 2000, XP, Vista, 7 (32/64 bit), 8 (32/64 bit),

10 (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 -40 to +85 °C Storage Temperature

0 to 95%, non-condensing Operating Humidity

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

BB-TBKT2

Optional terminal block with strain relief, 2 pack (1) Replacement Terminal Block - 5-position, 5.08mm,

8A, 30

Dimensions Unit: mm 86.75 84.52 80.02 99999 99999 29.31