# **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
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 Mb

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

Windows 0/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<sub>DC</sub>

Consumption ~2.5 W (high power device, draws >500 mA)

## Mechanical

Dimensions
Enclosure
Weight
84.5 x 119.1 x 29.3 mm
DIN rail mountable, plastic
222.3 g with USB cable

#### **Environmental**

• Operating Temperature  $0 \text{ to } +70 \,^{\circ}\text{C}$  • Storage Temperature  $-40 \text{ to } +85 \,^{\circ}\text{C}$ 

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

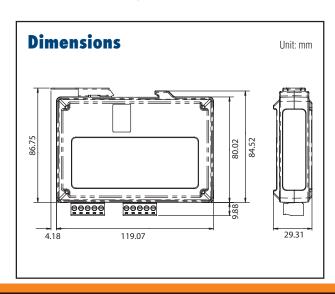
## Accessories – sold separately

■ **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



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