BB-USOPTL4-x BB-USPTL4-x BB-USO9ML4



In-line USB Converters

Features

- · Adds a COM port to your PC
- 2000 V RMS optical isolation (select models)
- 460.8 kbps data rate
- Quick, easy in-line installation
- · Automatic Send Data control no software drivers needed
- Powered by USB port; no power supply required
- High retention USB port
- USB cable included
- Locked Serial Number option (-LS models)

Specifications

Serial Technology

■ RS-422/485 4-Wire TDA(-), RDA(-), TDB(+), RDB(+), GND

■ **RS-485 2-Wire** Data A(-), Data B(+), GND

Connector
 Terminal block (BB-USOPTL4, BB-USOPTL4-LS,

BB-USPTL4, BB-USPTL4-LS)
DB9 male connector (BB-USO9ML4)

Data Rate 460.8 Kbps

Isolation
 2 kV RMS (BB-USOPTL4, BB-USOPTL4-LS,

BB-US09ML4)

• Industrial Bus Modbus ASCII/RTU

• **Bias** 4.7 K Ω on receive lines in RS-422/485 mode

USB Technology

USB Compatibility 1.1 and 2.0

Speed
 1.5, 12 Mbps: BB-USOPTL4, BB-USOPTL4-LS,

BB-US09ML4

480 Mbps: BB-USPTL4, BB-USPTL4-LS Type B High Retention (15 N / 1.54kg-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

■ **USB** Low power device (draws <100 mA)

Indicators

Connector

• **LEDs** Transmit Data, Receive Data

Mechanical

Dimensions
 Enclosure
 88.3 x 42.7 x 20.2 mm
 IP30, Plastic

Meantime Between Failures (MTBF)

MTBF BB-USOPTL4-x
 MTBF BB-USPTL4-x
 MTBF BB-USOPML4
 MTBF BB-USOPML4
 380,087 hours

• MTBF Calculation MIL 217F Parts Count Reliability Method

Environmental

• Operating Temperature 0 to +70 °C

• Operating Humidity 0 to 95%, non-condensing

Regulatory - BB-USOPTL4-x & BB-USPTL4-x

• **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)

Regulatory - BB-US09ML4

• CE - Directives 2004/108/EC - 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)

CE - Standards
 EN 55032 Class B - Information technology equipment

- RF Emissions

EN 55024 - Information technology equipment -

immunity characteristics

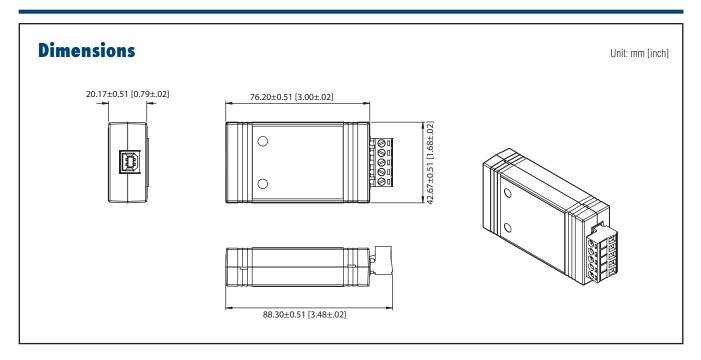
EN 61000-6-1 - Generic Standards - Residential, Commercial, Light-Industrial Environments

Amplicon.com

IT and Instrumentation for industry



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Ordering Information

Model No.	Isolation	RS-422/RS-485 Connector	Locked Serial Number?
BB-USOPTL4	2 kV	Pluggable Terminal Block	_
BB-USOPTL4-LS	2 kV	Pluggable Terminal Block	Yes
BB-USPTL4	_	Pluggable Terminal Block	_
BB-USPTL4-LS	_	Pluggable Terminal Block	Yes
BB-US09ML4	2 kV	DB9 Male Connector	_

Accessories - Sold Separately

■ **BB-TB5P508SR-2PK** 5-position terminal block with strain relief paddle

board, 2 pack

BB-USBAMBM-3F
 BB-TBKT2
 1 m Type A Male to Type B Male, gray (one included)
 Replacement Terminal Block - 5-position, 5.08mm,

8A, 30

■ **BB-9PAMF6** DB9m/DB9f serial cable, 1.8m

