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



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, BB-USOPTL4, LS) DB9 male connector (BB-USO9ML4) Data Rate 460.8 Kbps Isolation 2 kV RMS (BB-USOPTL4, BB-USOPTL4-LS, BB-USO9ML4) Industrial Bus Modbus ASCII/RTU Bias 4.7 KΩ on receive lines in RS-422/485 mode USB Technology USB Compatibility 1.1 and 2.0 Speed 5, 12 Mbps: BB-USOPTL4, BB-USOPTL4-LS, BB-USO9ML4 480 Mbps: BB-USPTL4, BB-USPTL4-LS Connector Windows O/S 8.1 (32/64 bit), 10 (32/64 bit), 2008-r2 (32/64 bit), 2012 Server-r2 (32/64 bit)
• Connector Terminal block (BB-USOPTL4, BB-USOPTL4-LS, BB-USPTL4, BB-USPTL4, BB-USOPTL4-LS) DB9 male connector (BB-USO9ML4) • Data Rate 460.8 Kbps • Isolation 2 kV RMS (BB-USOPTL4, BB-USOPTL4-LS, BB-USOPTL4-LS, BB-USO9ML4) • Industrial Bus Modbus ASCII/RTU • Bias 4.7 KΩ on receive lines in RS-422/485 mode USB Technology 1.1 and 2.0 • USB Compatibility 1.1 and 2.0 • Speed 1.5, 12 Mbps: BB-USOPTL4, BB-USOPTL4-LS, BB-USO9ML4 480 Mbps: BB-USOPTL4, BB-USPTL4-LS • Connector 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)
BB-USPTL4, BB-USPTL4-LS) DB9 male connector (BB-USO9ML4)• Data Rate460.8 Kbps• Isolation2 kV RMS (BB-USOPTL4, BB-USOPTL4-LS, BB-USO9ML4)• Industrial BusModbus ASCII/RTU• Bias4.7 KΩ on receive lines in RS-422/485 modeUSB Technology1.1 and 2.0• USB Compatibility1.1 and 2.0• Speed1.5, 12 Mbps: BB-USOPTL4, BB-USOPTL4-LS, BB-USO9ML4 480 Mbps: BB-USPTL4, BB-USPTL4-LS• ConnectorType B High Retention (15 N / 1.54kg-force withdrawal)• Windows O/S8.1 (32/64 bit), 10 (32/64 bit), 2008-r2 (32/64 bit), 2012 Server-r2 (32/64 bit)
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2012 Server-r2 (32/64 bit)
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Power
• USB Low power device (draws <100 mA)
Indiantara
Indicators
LEDs Transmit Data, Receive Data
Mechanical
Dimensions 88.3 x 42.7 x 20.2 mm
Enclosure IP30, Plastic

Meantime Between Failures (MTBF)

- MTBF BB-USOPTL4-x 1,318,809 hours
- MTBF BB-USPTL4-x 1,012,584 hours
- MTBF BB-US09ML4 380,087 hours
- MTBF Calculation MIL 217F Parts Count Reliability Method

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)

Environmental

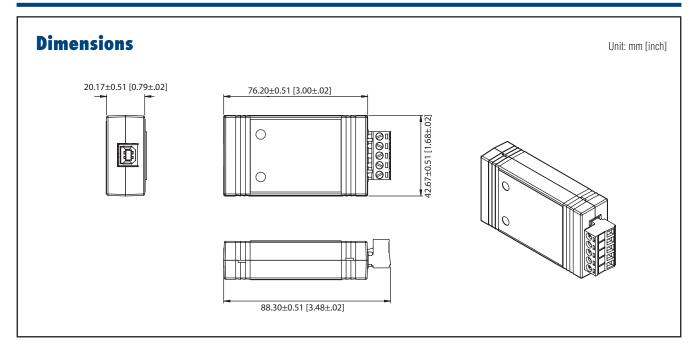
- Operating Temperature $\,$ 0 to +70 $^{\circ}\text{C}$
- **Operating Humidity** 0 to 95%, non-condensing

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-USO	9ML4
CE - Directives	2004/108/EC - Electromagnetic Compatibility Directive 2011/65/EU amended by 2015/863/EU – Reduction of

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	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

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



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 1 m Type A Male to Type B Male, gray (one included)
- BB-TBKT2 Replacement Terminal Block 5-position, 5.08mm, 8A, 30
- BB-9PAMF6 DB9m/DB9f serial cable, 1.8m

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Advantech: BB-USPTL4-LS