BB-485SD9R
BB-485SD9TB

RS-485 Converter, Port Powered

BB-485SD9R

Features

- Extend RS-232 data signals up to 1.2 km
- Convert RS-232 TD and RD to RS-485 signals
- Automatic Send Data Control - no software drivers necessary
- Baud rates up to 115.2 kbps
- Powered from RS-232 handshake lines - no power supply required

Specifications

Serial Technology

Data Rate	115.2 kbps, maximum
RS-232	Connector BB-485SD9R: DB9 female
	BB-485SD9TB: DB9 female
RS-485	BB-485SD9R: DB9 female
	BB-485SD9TB: Terminal board
Biasing Resistors	4.7k Ohms

Power

Source	Port-powering: from RS-232 handshake lines. External power option, 12-16 V_{DC} (BB-485SD9TB only)
Power Connector	Terminal block (BB-485SD9TB only)
Input Voltage	12 V_{DC} (BB-485SD9TB only)
Power Consumption	40mA, maximum

Mechanical

Dimensions	BB-485SD9R: 60.0 x 32.0 x 16.0 mm
	BB-485SD9TB: 87.0 x 32.0 x 16.0 mm
Enclosure	Plastic
Weight	81.6 gm

Meantime Between Failures (MTBF)

MTBF	BB-485SD9R: 986473 hours
	BB-485SD9TB: 968410 hours
MTBF Calc. Method	MIL 217F Parts Count Reliability Prediction

Wiring Information

- Refer to Quick Start Guide for wiring information, including terminal and pin identification. Available on website.

Environmental

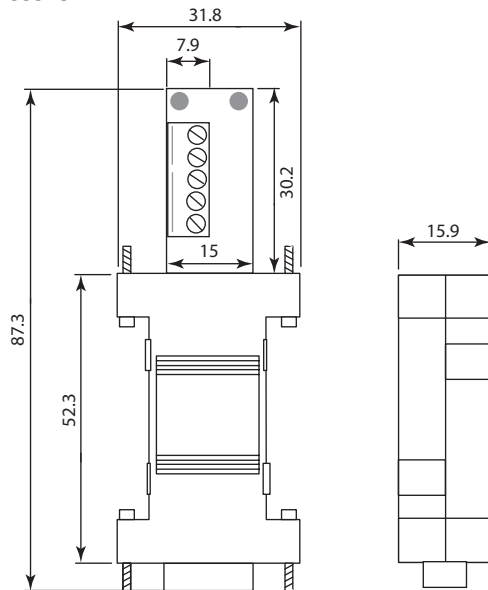|	
Operating Temperature	0 to +70 °C
Storage Temperature	-40 to +85 °C
Operating Humidity	0 to 95%, non-condensing

Regulatory

- **FCC Part 15, CISPR, CE**

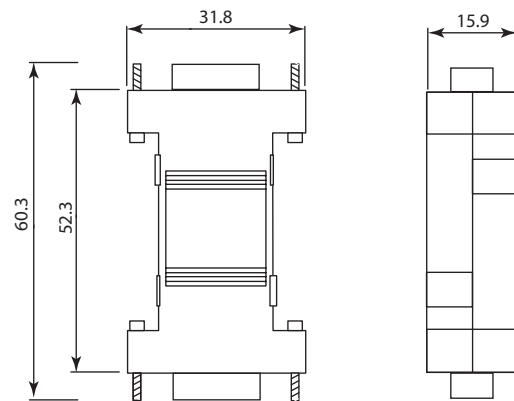|	
CE - Directives	2014/30/EU - Electromagnetic Compatibility
	2011/65/EU amended by 2015/863/EU – Reduction of Hazardous Substances Directive (RoHS)
	2012/19/EU - Waste Electrical and Electronic Equipment (WEEE)
CE - Standards	EN 55032 Class B - Electromagnetic Compatibility of Multimedia Equipment - Emission Requirements
	EN 55024 - Information Technology Equipment - Immunity Characteristics - Limits and Methods of Measurement
	EN 61000-6-3 + A1 - Generic Emission Standard for Residential, Commercial and Light-industrial Environments (Class B)
	EN 61000-6-1 - Generic Immunity Standard for Residential, Commercial and Light-industrial Environments

Dimensions

Unit: mm

BB-485SD9TB

BB-485SD9R

Ordering Information

Model Number	RS-232 Connector	RS-485 Connector	Output	Optional Power Supply
BB-485SD9R	DB9 Female	DB9 Female	RS-485 2-wire	-
BB-485SD9TB	DB9 Female	Terminal Block	RS-485 2-wire	✓

Accessories – Sold Separately

- **BB-SMi6-12-V-ST** — Power Supply, 12 V_{DC} 6 Watt, Stripped and Tinned, International AC Input, International AC Blades
- **BB-9PAMF6** — DB9 Male to DB9 Female Adapter Cable, 1.8 m