Port Powered RS-232/485 Converters

Models BB-485SD9R, BB-485SD9RJ, BB-485SD9TB





PRODUCT FEATURES

- Extend RS-232 data signals up to 1.2 km (4000 ft)
- 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

These port-powered, two channel converters allow your computer to communicate longer distances by converting TD and RD RS-232 lines to RS-485 signals. RS-485 also provides multi-drop capability.

All converters feature Automatic Send Data Control which enables the driver when data is present on the RS-232 side. Control of the driver is automatic at speeds up to 115.2 kbps.

The unit is powered from the RS-232 data and handshake lines whether the lines are high or low. No handshake line change is necessary to control the data lines. The RS-485 driver is enabled with each bit of data. The RS-485 receiver is disabled when the driver is enabled and is enabled when the driver is disabled. Model BB-485SD9TB can be optionally powered by an external 12 VDC power supply.

These converters are suitable for field service, where a power supply would add clutter, or anywhere you need compact, easy-to-use, economically priced serial conversion.

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-485SD9RJ	DB9 Female	RJ11	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 VDC 6 Watt, Stripped and Tinned, International AC Input, International AC Blades

BB-9PAMF6 - DB9 Male to DB9 Female Adapter Cable, 1.8 m (6 ft)

Automatic Send Data Control Explained

As operating systems become more complex, it is increasingly difficult to control an RS-485 driver with standard software and the RTS line. This is especially true in Windows and multi-tasking operating systems. With Advantech B+B SmartWorx' Automatic Send Data Control circuit, driver control is in the converter hardware, so you do not have to work with software at all.

The circuit monitors data flow and enables the driver during transmission and automatically disables it when no data is being sent. There is no need to rework software or install new drivers. Most Advantech B+B RS-232 to RS-485 converters and RS-485 serial cards include Automatic Send Data Control.

Why use an "optional" power supply with a port-powered converter?

Simply put, all RS-232 ports are not created equal. Many laptop PC's, for example, deliberately reduce power to the RS-232 port to save the battery. And, if you are working at the distance limits of RS-422 or 485, you might need an extra boost. For the majority of applications though, the converter's port powering is sufficient to accomplish the task.

All product specifications are subject to change without notice.

485SD9R, 485SD9RJ, 485SD9TB, 1719ds



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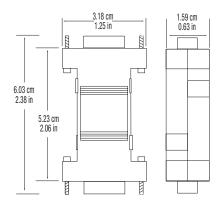
SPECIFICATIONS

Available on website.

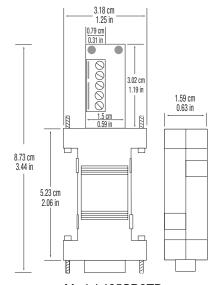
SPECIFICATIONS			
SERIAL TECHNOLOGY			
Data Rate	115.2 kbps, maximum		
RS-232			
Connector	BB-485SD9R: DB9 female BB-485SD9RJ: DB9 female BB-485SD9TB: DB9 female		
RS-485			
	BB-485SD9R: DB9 female BB-485SD9RJ: RJ11 BB-485SD9TB: Terminal board		
Biasing Resistors	4.7k Ohms		
POWER			
Source	Port-powering: from RS-232 handshake lines. External power option, 12-16 VDC (BB-485SD9TB only)		
Power Connector	Terminal block (BB-485SD9TB only)		
Input Voltage	12 VDC (BB-485SD9TB only)		
Power Consumption	40mA, maximum		
MECHANICAL			
Dimensions	BB-485SD9R: 6.0 x 3.2 x 1.6 cm (2.4 x 1.3 x 0.6 in) BB-485SD9RJ: 7.3 x 3.2 x 1.6 cm (2.9 x 1.3 x 0.6 in) BB-485SD9TB: 8.7 x 3.2 x 1.6 cm (3.4 x 1.3 x 0.6 in)		
Enclosure	Plastic		
Weight	81.6 gm (0.18 lb)		
MTBF	BB-485SD9R: 986473 hours BB-485SD9RJ: 897656 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.			

ENVIRONMENTAL			
Operating Temperature	0 to +70 °C (+32 to +158 °F)		
Storage Temperature	-40 to +85 °C (-40 to +185 °F)		
Operating Humidity	0 to 95%, non-condensing		
REGULATORY			
FCC Part 15, CISPR, CE			
CE - Directives	2014/30/EU - Electromagnetic Compatibility 2011/65/EU - Reduction of Hazardous Substances (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		

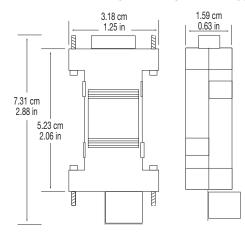
MECHANICAL DIAGRAM - MODEL BB-485SD9R



MECHANICAL DIAGRAM - MODEL BB-485SD9TB



MECHANICAL DIAGRAM - MODEL BB-485SD9RJ





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