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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Port Powered RS-232/485 Converters

485SD9R, 485SD9RJ, 485SD9TB





PRODUCT FEATURES

- Extend RS-232 data signals up to 1.2 km (4,000 ft.)
- Change 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 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	ОИТРИТ	OPTIONAL POWER SUPPLY
485SD9R	DB9 Female	DB9 Female	RS-485 2-wire	
485SD9RJ	DB9 Female	RJ11	RS-485 2-wire	
485SD9TB	DB9 Female	Terminal Block	RS-485 2-wire	~

ACCESSORIES

SM16-12-V-ST - Power Supply, 12 VDC 6 Watt, Stripped and Tinned, International AC Input, International AC Blades

9PAMF6 - DB9 male to DB9 female adapter cable, 6 ft. (1.8 m)

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.

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 SmartWorx RS-232 to RS-485 converters and RS-485 serial cards include Automatic Send Data Control.

All product specifications are subject to change without notice.

485SD9R, 485SD9RJ, 485SD9TB, 2716ds



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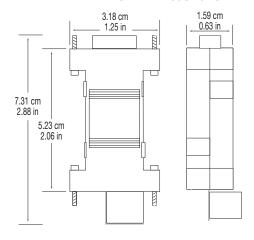


SPECIFICATIONS

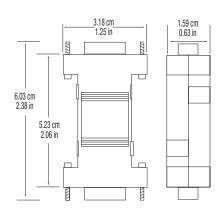
SPECIFICATIONS	
SERIAL TECHNOLOGY	
Data Rate	115.2 kbps maximum
RS-232	
Connector	485SD9R: DB9 female 485SD9RJ: DB9 female 485SD9TB: DB9 female
RS-485	
	485SD9R: DB9 female 485SD9RJ: RJ11 485SD9TB: Terminal board
Biasing Resistors	4.7k Ohms
POWER	
Source	Port-powering: from RS-232 handshake lines. External power option, 12-16 VDC (485SD9TB only)
Power Connector	Terminal block (485SD9TB only)
Input Voltage	12 VDC (485SD9TB only)
Power Consumption	40mA maximum
MECHANICAL	
Dimensions	485SD9R: 6.0 x 3.2 x 1.6 cm (2.4 x 1.3 x 0.6 in) 485SD9RJ: 7.3 x 3.2 x 1.6 cm (2.9 x 1.3 x 0.6 in) 485SD9TB: 8.7 x 3.2 x 1.6 cm (3.4 x 1.3 x 0.6 in)
Enclosure	plastic
Weight	0.18 lbs (81.6 g)
MTBF	485SD9R: 986473 hours 485SD9RJ: 897656 hours 485SD9TB: 968410 hours
MTBF Calc. Method	MIL 217F Parts Count Reliability Prediction
WIRING INFORMATION	
Refer to our Quick Start Guidentification	ide for wiring information, including terminal and pin

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			
APPROVALS / CERTIFICATIONS - 485SD9R, 485SD9RJ, 485SD9TB				
FCC Part 15, CISPR, EN 55022: 2010 + AC:2011 Class B Emissions				
CE				
2004/108/EC	Electromagnetic Compatibility Directive			
2011/65/EU	Reduction of Hazardous Substances Directive			

MECHANICAL DIAGRAM - 485SD9RJ



MECHANICAL DIAGRAM - 485SD9R



MECHANICAL DIAGRAM - 485SD9TB

