

Product Overview

RS-485 Side



RS-232 Side

1 | RS-232 Side

Connector: DB-9 female.

Signals: Passes through pins 3 (TD) and 2 (RD).
Pins 7 (RTS) and 8 (CTS) are tied together.
Pins 4 (DTR), 6 (DSR), and 1 (CD) are tied together.

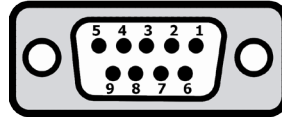
2 | RS-485 Side

Connector: DB-9 female, RJ11 or Terminal Board.

Signals: 2 wire, half-duplex operation only.
Automatic control circuit enables driver only when transmitting.

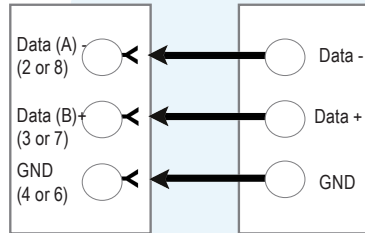
Receiver is disabled when transmitting to prevent echo back to RS-232 device.

485SD9R

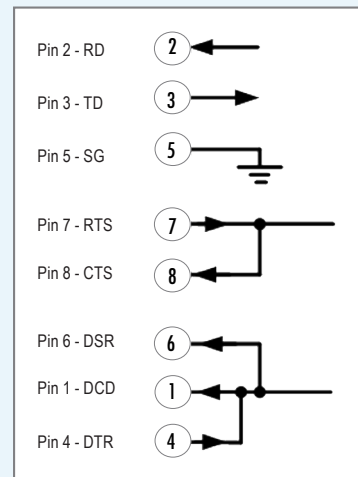


Pinouts	
Signal	DB9 Pin #
Data A (-)	2 or 8
Data B (+)	3 or 7
Signal Ground	4 or 6

485SD9R RS-485 2-Wire Device



485SD9R DB9 Female DCE RS-232 Connector

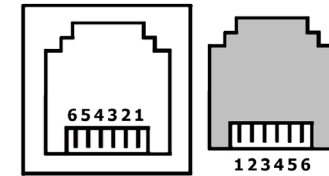


Note: Control signals are looped back as shown. They are not used for flow control. However, they provide power to the converter. We recommend connecting all control signals.

Note: TD is also used to power the converter

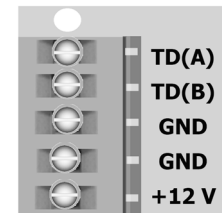
485SD9RJ

RJ11 Female (Port) RJ11 Male (Cable)

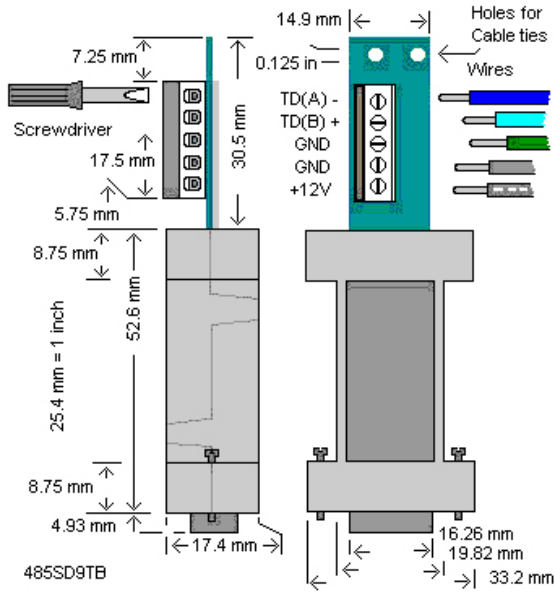


Pinouts	
Signal	RJ11 Pin #
Data A (-)	2
Data B (+)	5
Signal Ground	4

485SD9TB



Pinouts	
TD(A)	1
TD(B)	2
GND	3
GND	4
+12V	5



Technical Notes

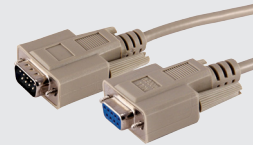
Although these products use handshake lines to power the converter, no handshaking is required to control the RS-485 driver. The RS-485 driver is automatically enabled during each spacing state on the RS-232 side. During the marking or idle state, the RS-485 driver is disabled and the data lines are held in the marking state by the 4.7K ohm pull-up and pull-down resistors.

See the Advantech B+B SmartWorx free RS-422/RS-485 the 85 Application Note for more information on termination and DC biasing of an RS-485 network.

No external power is required if two RS-232 output handshake lines are available. If the handshake lines are raised and no termination is used, the power efficiency is greatly increased. Less than 3mA is required to operate the 485SD9R plus the load current.

485SD9TB may be externally powered using the SMIG-12-V-ST.

Recommended Accessories



9PAMF3
DB9 Male To DB9 Female, 3 Ft

SMIG-12-V-ST
Power
Supply



+ QUICK START GUIDE



485SD9R, 485SD9TB 485SD9RJ

Port-Powered RS-232 to RS-485 Converter

Before you begin, be sure you have the following:

- + 485Sxxx Converter
- + Required but not included: Serial Cables

B+B SMARTWORX

Powered by

ADVANTECH

1-888-948-2248 | Europe: +353 91 792444

advantech-bb.com

707 Dayton Road | PO Box 1040 | Ottawa, IL 61350

Phone: 815-433-5100 | Fax: 815-433-5109

www.advantech-bb.com | E-mail: support@advantech-bb.com

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