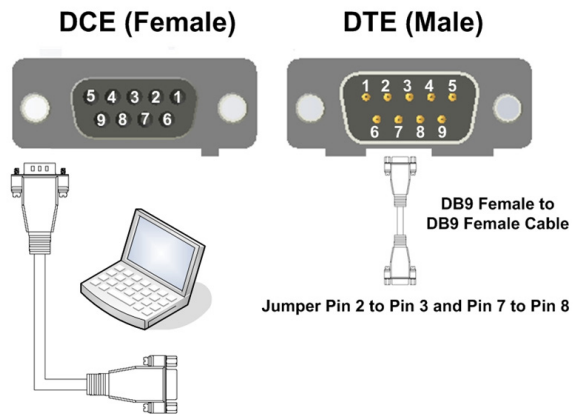


7 | Loopback Test



1. Use a DB9 female to DB9 male cable to connect a PC to the DCE port.
2. (Recommended) Connect a DB9 female to DB9 female cable to the DTE port.
3. On the DTE Port, jumper Pin 2 to Pin 3 and Pin 7 to Pin 8 on the female end of the cable. This loops TD to RD and CTS to RTS.
4. Using hyper-terminal or a similar program, connect to the appropriate COM port (remember to set the baud rate to 9600). Turn off hyper terminal local echo.
5. Transmit data. The same data should be returned.

Recommended Accessories

Model SMI6-12-V-P230-C1
12 VDC Power Supply,
International AC Input & Blades

B+B SMARTWORX

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+ QUICK START GUIDE



9POP4

RS-232, 4-Channel Optical Isolator

Before you begin, be sure you have the following:

- + 9POP4 RS-232 Optical Isolator (included)
- + 12 VDC Power Supply (sold separately)

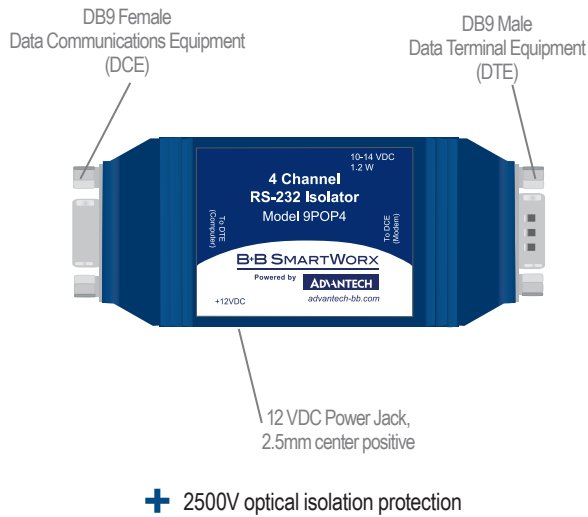
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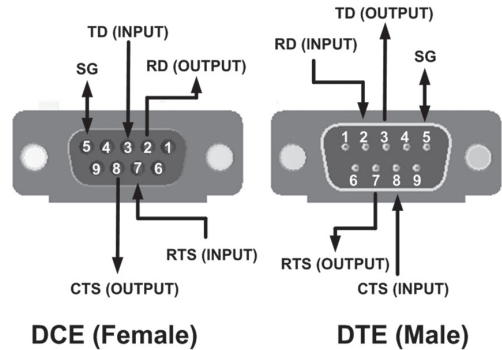
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Product Overview



2 | DB9 Pinouts



1. DTE stands for "Data Terminal Equipment." DTE include computers, PLC's, and most devices which are not used to extend communications. (Think **COMPUTER** for **DTE**.)
2. DCE stands for "Data Communications Equipment." DCE includes devices intended to plug directly into a DTE port; modems or devices that extend communications like a modem, such as RS-422, RS-485, or fiber optic converters or radio modems. (Think **MODEM** for **DCE**.)
3. On the DCE (female) side, Pins 1, 4, and 6 are tied together internally.
4. On the DTE (male) side, Pins 4 and 6 are tied together internally.

4 | Power

1. The two sides of the isolator are powered from a single +12VDC power supply and maintain isolation. This powering configuration allows the device to be run in any system with only a single power supply, regardless of the power levels on the RS-232 ports.
2. In order to maintain the required isolation, use the recommended power supply. Using an unregulated power supply may negate the isolation.
3. Recommended power supply:
Model SMI6-12-V-P230-C1 (available from Advantech B+B SmartWorx)

1 | Connectors

Pinouts			
Pin	Signal	DCE	DTE
1	DCD	Output	Input
2	RD	Output	Input
3	TD	Input	Output
4	DTR	Input	Output
5	GND	--	--
6	DSR	Output	Input
7	RTS	Input	Output
8	CTS	Output	Input
9	RI	Output	Input

3 | Wiring Example

