

# 9POP4

## RS-232 Isolator

- ✓ 2.5 kV Isoaltion
- ✓ ESD Protection - 15 kV
- ✓ Compact IP 30 Plastic Case



The 9POP4 isolates and protects RS-232 equipment from lightning surges, accidental high voltage shorts, and ground loops. RS-232 data signals TD, RD, RTS, and CTS are supported at up to 230.4 kbps. The Isolation Circuits are rated to 2.5 kV and protect your valuable equipment while maintaining maximum uptime.

Each side of the isolator receives power from a single 12 VDC power supply that maintains the isolation. This powering configuration allows the device to be used in a system with only one power supply, regardless of the power provided by the RS-232 ports. The power supplies listed under "ordering information" have been tested and certified for use. Using any other power supply may bypass or degrade the isolation barrier.

The isolator uses DB9 male and DB9 female connectors. The female connector is wired as a DCE and should be connected to a DTE port. The male connector is a DTE and should be connected to a DTE port. If you are connecting a DTE to a DTE or a DCE to a DCE, you will need a null modem adapter. Refer to the "Quick Start Guide" for more information concerning DTE and DCE devices.

Remember B&B Electronics when it comes to your serial data communications needs.

### Specifications

#### Serial Technology

RS-232	TD, RD, RTS, CTS, GND
Data Rate	230.4 kbps
Isolation	2.5 kV
ESD	15 kV Air Discharge, 8 kV Contact
Connectors	DB9 Female (DCE) DB9 Male (DTE)

#### Power

Source	External
Power Connector	2.5 mm Jack
Input Voltage	12 VDC
Power Consumption	731 mW

#### Mechanical

Dimensions	4.1 x 1.7 x 0.86 in (10.4 x 4.3 x 2.0 cm)
Enclosure	IP 30, Plastic
Weight	0.12 lbs, 54.4 g
MTBF	262084 Hours
MTBF Calc. Method	MIL 217F Parts Count Reliability

#### Environmental

Operating Temperature	SCP211-DFTB3 0 to 70 °C
Storage Temperature	-40 to 85 °C
Operating Humidity	0 to 95% Non-condensing

### Ordering Information

9POP4	RS-232 Isolator
232PS	Required, Sold Separately
PS1UK-1000	US Power Supply
PS1EU-1000	UK Power Supply
	EU Power Supply

Approvals / Certifications			
Emissions	FCC Class B, CISPR Class B (EN55022)		
CE	EN61000-6-1:2007	(Light Industrial)	
	EN61000-4-2:2008	(ESD)	ESD, ±8kV/±15kV (contact/air)
	EN61000-4-3:2006	(RFI)	RFI, 80-1000MHz 3V/m, 1.3 - 2.7 GHz, 3V/m
	EN61000-4-4:2004	(EFT Burst)	EFT, ±1kV Power, ±500V Data Lines
	EN61000-4-5: Ed2, 2005	(Surge)	Surge, ±2kV Power (AC), N/A on Data Lines
	EN61000-4-6:2005	(CI)	CI, 3Vrms all ports