

RS-232 Optical Isolator 9P0P4



PRODUCT FEATURES

- 2.5 kV isolation
- ESD protection 15 kV
- Protects up to 4 channels
- 230.4 kbps
- Ideal for laptops, lower power serial ports

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. Isolation circuits are 2.5 kV rated and protects valuable equipment while maintaining maximum uptime.

Each side of the isolator receives power from a single 12 VDC power supply to maintain 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 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 DCE port. If you are connecting a DTE to a DTE or a DCE to a DCE, you will need a null modem adapter.

Power supplies recommended and available from B&B Electronics have been tested and certified. Using any other power supply may bypass or degrade the isolation barrier.

ACCESSORIES

232PS - 12VDC@100mA wall transformer power supply, 2.5mm jack PS1EU-1000 - 220-240 VAC to 12 VDC power supply, jack, Euro CEE7/7 plug PS1UK-1000 - 220-240 VAC to 12 VDC power supply, jack, UK BS-1363 plug MMNM9 - Null Modem Adapter – DB9 Male / DB9 Male

ORDERING INFORMATION

MODEL NUMBER	DESCRIPTION				
9P0P4	RS-232 4-Channel Optical Isolator				

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 required					
Power Connector		2.5 mm jack					
Input Voltage		12 VDC					
Power Consumption		731 mW					
MECHANICAL							
Dimensions		10.4 x 4.3 x 2.0 cm (4.1 x 1.7 x 0.86 in)					
Enclosure		IP 30, plastic					
Weight		54.4 g (0.12 lbs)					
MTBF		262084 hours					
MTBF Calc. Method		MIL 217F Parts Count Reliability					
ENVIRONMENTAL							
Operating Temperature	0 to	0 to 70°C					
Storage Temperature	-40	40 to 85°C					
Operating Humidity	0 to	0 to 95% Non-condensing					
APPROVALS / CERT	IFICA	TIONS					
Emissions	ons FCC Class B, CISPR Class B (EN55022)						
CE	EN6	1000-6-1:2007	(Light Ind				
	EN6	1000-4-2:2008	(ESD)	ESD, ±8kV/±15kV (contact/air)			
	EN6	1000-4-3:2006	(RFI)	RFI, 80-1000MHz 3V/m, 1.3 - 2.7 GHz, 3V/m			
	EN6	1000-4-4:2004	(EFT Burst)	EFT, ±1kV Power, ±500V Data Lines			
	EN6	1000-4-5: Ed2, 2005	(Surge)	Surge, ±2kV Power (AC), N/A on Data Lines			
	EN6	1000-4-6:2005	(CI)	CI, 3Vrms all ports			



