

RS-232 4-Channel Optical Isolator

Model 9POP4

B+B SMARTWORX

Powered by

ADVANTECH

www.advantech-bb.com



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 Advantech B+B SmartWorx have been tested and certified. Using any other power supply may bypass or degrade the isolation barrier.

ORDERING INFORMATION

MODEL NUMBER	DESCRIPTION
9POP4	RS-232 4-Channel Optical Isolator

ACCESSORIES

SMI6-12-V-P230-C1 - Power Supply, 12 VDC 6 Watt, 2.5MM Plug, International AC Input, International AC Blades

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	IP30, plastic
Weight	54.4 g (0.12 lbs)
MTBF	262084 hours
MTBF Calc. Method	MIL 217F Parts Count Reliability

ENVIRONMENTAL		
Operating Temperature	0 to 70 °C	
Storage Temperature	-40 to 85 °C	
Operating Humidity	0 to 95% Non-condensing	
APPROVALS / CERTIFICATIONS		
Directives	2014/30/EC	Electromagnetic Compatibility Directive
	2011/65/EU	Reduction of Hazardous Substances Directive
Standards	EN 55032 (Class B)	Electromagnetic Compatibility of Multimedia Equipment - emission requirements
	EN 55024	IT Equipment - Immunity characteristics - Limits and methods of measurements
	EN 61000-6-1	Generic immunity standard for residential, commercial and light-industrial environments
	EN 61000-4-2	ESD Immunity
	EN 61000-4-3	Radiated Immunity
	EN 61000-4-4	EFT/Burst Immunity
	EN 61000-4-6	RF Conducted Immunity

All product specifications are subject to change without notice.

9POP4_1717ds