Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

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

B+B SMARTWORX

Powered by ADVANTECH

orders@advantech-bb.com
support@advantech-bb.com

Corporate Headquarters: 707 Dayton Road, PO Box 1040 Ottawa, IL 61350 USA 815-433-5100 Fax 433-5104
European Office: Westlink Commercial Park, Oranmore Co. Galway Ireland +353 91 792444 Fax +353 91 792445