

2.5 kV RS-232 Optical Isolator

Model BB-9SPOP2

ADVANTECH

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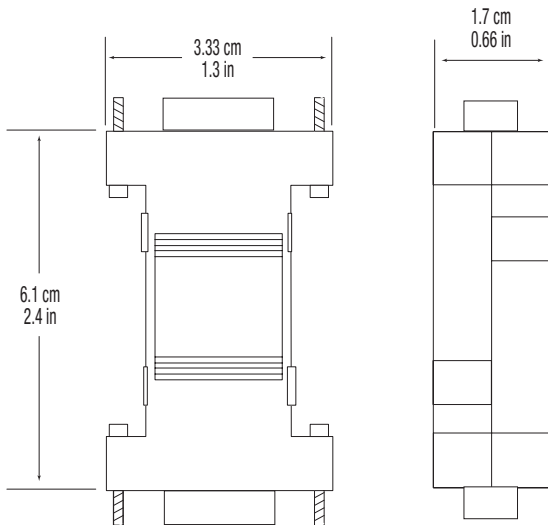


PRODUCT FEATURES

- 2,500 V, 2-way optical isolation
- RS-232 on DB9 female (DTE) and male (DCE) connectors
- Data rates up to 115.2 kbps
- Port-powered on both sides, no external power supply required

Model BB-9SPOP2 is a port-powered, two-channel isolator with a 2,500 Volts protection level. It optically isolates both the RS-232 Transmit Data and Receive Data lines and RS-232 equipment from lightning surges, accidental high voltage shorts, and ground loops. RS-232 data signals TD and RD are supported at up to 115.2 kbps.

MECHANICAL DIAGRAM



ORDERING INFORMATION

MODEL NUMBER	CHANNELS PROTECTED	DTE CONNECTOR	DCE CONNECTOR	ISOLATION
BB-9SPOP2	2	DB9 Female	DB9 Male	2,500 V

ACCESSORIES - optional, sold separately

BB-9PAMF6 - DB9 Male to DB9 Female, 1.8 m (6 ft)

BB-MMNM9 - Null Modem Adapter, DB9 Male / DB9 Male

BB-232HESP - RS-232 Surge Protector

SPECIFICATIONS

SERIAL TECHNOLOGY	
Data Rate	115.2 kbps
RS-232 Connectors	DB9 female (DTE) DB9 male (DCE)
RS-232 Signals	TD, RD
Transmission Mode	Asynchronous, half or full duplex, point-to-point
POWER	
Source	Port Powered from both sides. DTE side - DTR & RTS lines. DCE side - DCD, DSR & CTS lines.
Weight	36.3 g (0.08 lb)
ISOLATION	
Volts/Duration	2,500 Volts RMS isolation for 1 minute
MECHANICAL	
Dimensions	6.1 x 3.3 x 1.7 cm (2.4 x 1.3 x 0.66 in)
ENVIRONMENTAL	
Operating Temperature	0 to +70 °C
Storage Temperature	-55 to +125 °C
Operating Humidity	0 to 95%, non-condensing
MEANTIME BETWEEN FAILURE (MTBF)	
MTBF	674717 hours
MTBF Calc. Method	Parts Count Reliability Protection
APPROVALS / DIRECTIVES / STANDARDS	
FCC Part 15, CISPR, CE	
2012/19/EU - Waste Electrical and Electronic Equipment (WEEE)	
CE - Directives	2014/30/EU Electromagnetic Compatibility Directive 2011/65/EU amended by (EU) 2015/863 Reduction of Hazardous Substances Directive (RoHS) 2012/19/EU Waste Electrical and Electronic Equipment (WEEE)
CE - Standards	EMC: EN 55032 Class B - Electromagnetic Compatibility of Multimedia Equipment – Emission Requirements EN 55024 - Information Technology Equipment – Immunity Characteristics – Limits and Methods of Measurement
Standards - other	EN 55032+ AC - Class A Emissions

Surge Protection Standards

IEC 1000-4-5 "Surge Immunity Test" and IEEE C62.41 "IEEE Recommended Practice on Surge Voltages in Low-Voltage AC Power Circuits" are the recognized standards for surge protection. Advantech B+B heavy-duty surge protectors have been tested at 6 kV to meet these two specifications.

Learn more about surge suppression & isolation at:
www.advantech-bb.com

- "Isolation: Your Best Investment for Reliability"
- "Dataline Isolation Theory"
- "Dataline Surge Protection"

All product specifications are subject to change without notice.
BB-9SPOP2_2220ds

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