Isolated In-line Serial Converters

Models BB-4WSD9OTB, BB-4WSD25OTB







PRODUCT FEATURES

- RS-232 to RS-422 or RS-485 (2 or 4 wire) serial conversion
- 2,000V two-way optical isolation
- Data rate: 115.2 kbps
- Quick, inline installation
- Modbus compatible
- 10 to 48 VDC external power required (not included, sold separately)
- Removable terminal blocks for RS-422/485
- Automatic Send Data Control no software drivers required

Models BB-4WSD9OTB and BB-4WSD25OTB convert RS-232 to RS-422 or RS-485 (2 or 4-wire). 2,000V, two-way optical isolation protects devices from power surges, spikes and ground loops in harsh electrical environments.

These in-line converters support distances up to 1200 meters (4000 ft.) and data rates up to 115.2 kbps. Switchable modes support 2-wire RS-485, 4-wire RS-485, and full-duplex RS-422. Available with female DB9 or DB25 RS-232 inputs.

Removable terminal blocks for RS-422/485 and external power make wiring easy. Accepts external power from 10-48 VDC from an industrial power source or plug in power supply (not included, sold separately).

ACCESSORIES - sold separately

BB-SMI6-12-V-ST - Power Supply, 12VDC Output, 0.5A Current, 6W, Stripped/Tinned

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

BB-9PAMM6 - DB9 Male to DB9 Male Cable, 1.8 m (6 ft)

BB-232AMF5 - DB25 Male to DB25 Female Cable, 1.8 m (6 ft)

BB-232AMM5 - DB25 Male to DB25 Male Cable, 1.8 m (6 ft)

ORDERING INFORMATION

MODEL NUMBER	RS-232 CONNECTOR	RS-485 CONNECTOR
BB-4WSD9OTB	DB9 Female	Removable Terminal Blocks
BB-4WSD25OTB	DB25 Female	Removable Terminal Blocks

SPECIFICATIONS

SERIAL TECHNOLOGY		
Data Rate	115.2 kbps maximum	
LED Indicators	TD and RD	
RS-232 Connector	BB-4WSD9OTB: DB9 female BB-4WSD25OTB: DB25 female	
RS-232 Signals	TD, RD, GND	
RS-422/485 Connector	BB-4WSD9OTB: Terminal block, removable BB-4WSD25OTB: Terminal block, removable	
RS-485, 2-wire	Data A(-), Data B (+), GND	
RS-422/485, 4-wire	TDA(-), TDB(+), RDA (-), RDB(+), GND	
POWER		
Input Required	10-48 VDC Input (power supply required, not included, sold separately)	
Current Draw	28 mA at 12 VDC (typical)	
MECHANICAL		
Dimensions	BB-4WSD9OTB: 9.8 x 4.3 x 2.3 cm (3.9 x 1.7 x 0.9 in) BB-4WSD25OTB: 9.8 x 5.5 x 2.3 cm (3.9 x 2.2 x 0.9 in)	
MEANTIME BETWEEN FAILURES (MTBF)		
MTBF	179604	
MTBF Calculation Method	MIL 217F Parts Count Reliability Prediction	
ENVIRONMENTAL		
Operating Temperature	0 to +70 °C (+32 to +158 °F)	
Storage Temperature	-40 to +85 °C (-40 to +185 °F)	
REGULATORY / APPROVALS / CERTIFICATIONS		
FCC, CE		
CE - Directives	2014/30/EU - Electromagnetic Compatibility 2011/65/EU - Reduction of Hazardous Substances (RoHS) 2012/19/EU - Waste Electrical and Electronic Equipment (WEEE)	
CE - Standards	EN 55032 Class B - Electromagnetic Compatibility of Multimedia Equipment - Emission Requirements EN 55024 - Information Technology Equipment - Immunity Characteristics - Limits and Methods of Measurement EN 61000-6-3 + A1 - Generic Emission Standard for Residential, Commercial and Light-industrial Environments (Class B) EN 61000-6-1 - Generic Immunity Standard for Residential, Commercial and Light-industrial Environments	

All product specifications are subject to change without notice. BB-4WSD9OTB & BB-4WSD25OTB_1719ds

