BB-485019TB



Features

Converts RS-232 data signals to RS-422/485

Isolated Serial Converter

1500V optical isolation for data lines and ground

Data rate: up to 9600 bps

Inline installation

10 to 14 Vdc power supply (required, not included, sold separately)

cULus, FCC, CE

Introduction

Model BB-4850I9TB, isolated converter, converts unbalanced, full-duplex RS-232 signals to balanced full-duplex (4-wire) RS-422/485 or half-duplex (2-wire) RS-485 signals.

The converter provides 1500 Volts RMS optical isolation for data lines and ground (and connected devices) between the RS-232 and RS-422/485 signals. RS-232 port has a female DB9 connector. RS-422/485 port has a 6-position terminal block.

The RS-232 side of the converter draws power from the handshake lines (DTR, RTS). At least one handshake line must be asserted (raised high) to power the RS-232 side. The RS-422/485 side must be powered by an external 12 Vdc power supply (not included, sold separately).

Ordering Information

	Model No.	RS-232 Connecter	RS-422/485 Connector
	BB-485019TB	DB9 Female	Terminal Block

Accessories - Sold Separately

BB-SMI6-12-V-ST – Power supply, 12 Vdc 6 Watt, stripped and tinned, international AC input, international AC blades

BB-9PAMF6 - 1.8 m (6 ft) RS-232 serial cable

BB-MMNM9 - DB9 male to DB9 male null modem adapter

Specifications

9600 bps		
9600 hns		
adda nha		
DB9 female (DCE)		
TD, RD, GND		
Terminal block		
Data A (-), Data B (+), GND		
TDA(-), TDB(+), RDA(-), RDB(+), GND		
Isolation		
Data lines		
Optical		
1500 V		
Terminal Block		
26 to 16 AWG		
2.0 lb fin		
2) Power Sources		
Port-powered from DTR and RTS handshake lines		
External power supply (not included, sold separately)		
Terminal block		
0.9 W		
External power supply (not included, sold separately)		

Mechanical				
Enclosure Material	Plastic			
Dimensions	5.5 x 8.3 x 1.7 cm (2.2 x 3.3 x 0.7 in)			
Mounting	Inline installation			
Environmental				
Operating Temperature	0 to +50 °C (+32 to +122 °F)			
Storage Temperature	-40 to +85 °C (-40 to +185 °F)			
Operating Humidity	0 to 95%, non-condensing			
Meantime Between F	eantime Between Failures (MTBF)			
MTBF	272581 hours			
MTBF Method	MIL 217F Parts Count Reliability Prediction			
Regulatory – Approvals / Standards / Directives				
Approvals	FCC, CE, cULus File Number: E222870			
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	EN 55032 (Class B) - Electromagnetic Compatibility of Multimedia Equipment – Emission Requirements EN 55024 – Information Technology Equipment – Immunity Characteristics – Limits and Methods of Measurement			
IEC Standards	EN 61000-6-1 – Generic Immunity Standard for Residential, Commercial and Light-industrial Environments			