Industrial RS-232 to RS-422/485 Converters

Models BB-SCP211-DFTB3, BB-SCP311T-DFTB3





The BB-SCPx series of RS-232 to RS-422/485 converters are compact and tough, designed and tested to meet heavy industrial EMC standards. The RS-232 signal is connected via a female DB9 connector. The RS-422/485 (2-wire and 4-wire) signal is connected via a removable terminal block, making wiring easy. Bit-wise enabled circuitry automatically detects the character time-out eliminating the need to set DIP switches for the baud rate.

Power is connected through a two-position, removable terminal block. A 10-30V DC external power source is required (not included, sold separately).

Basic model BB-SCP211-DFTB3 is non-isolated and made for less demanding temperature extremes. This model can be used when isolation is not required, such as applications in which the data line does not exit the control cabinet.

Model BB-SCP311T-DFTB3 offers 2 kV isolation and stands up to -40 to +80 °C temperatures. This is the more rugged model of the series and an excellent investment for protecting your expensive control equipment.

PRODUCT FEATURES

- Convert RS-232 data signals to RS-422/485
- 2kV optical isolation (Model# BB-SCP311T-DFTB3)
- ESD protection 8 kV contact, 15 kV air
- Data rate: up to 460.8 kbps (bit-wise enable)
- -40 to +80 °C wide operating temperature (Model# BB-SCP311T-DFTB3)
- Rugged metal panel mount case (DIN rail adapters sold separately)
- 10-30 VDC external power source (not included, sold separately)
- UL Listed

ORDERING INFORMATION

MODEL NUMBER	DESCRIPTION
BB-SCP211-DFTB3	RS-232 to RS-422/485 Converter
BB-SCP311T-DFTB3	RS-232 to RS-422/485 Converter, Wide Temperature, Isolated

ACCESSORIES - sold separately

BB-MDR-40-24 - Power Supply, 24VDC, 40W, 1.7A output power, DIN rail mount BB-SMI6-12-V-ST - Power Supply, 12VDC, 6W, 500mA, international AC input & blades, stripped/tinned

BB-DRAD35 - DIN rail mounting clips, 35 mm

BB-TBKT1 - Replacement terminal block - 2-position, 5.08mm, 8A, 300V

BB-TBKT2 - Replacement terminal block - 5-position, 5.08mm, 8A, 300V

BB-9PAMF6 - RS-232 serial cable, DB9 male to DB9 female, 1.8 m

All product specifications are subject to change without notice. BB-SCP211-DFTB3_BB-SCP311T-DFTB3_3020ds



Industrial RS-232 to RS-422/485 Converters

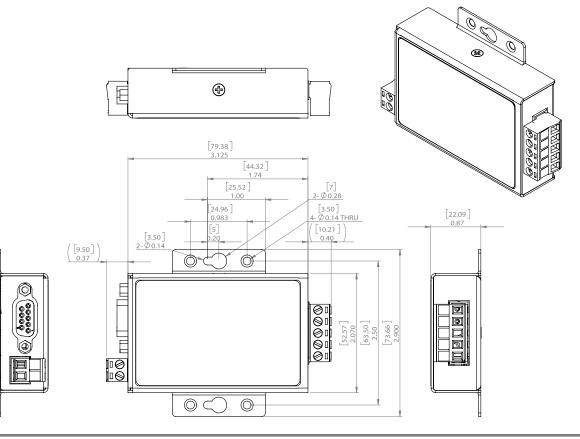
Models BB-SCP211-DFTB3, BB-SCP311T-DFTB3



	of Eon Tochono		
SERIAL TECHNOLOGY			
RS-232	TD, RD, GND		
RS-422/485 4W	TDA(-), RDA(-), TDB(+), RDB(+), GND		
RS-485 2W	Data A(-), Data B(+), GND		
Data Rate	Up to 460.8 Kbps		
Isolation	2 kV (Model BB-SCP311T-DFTB3 only)		
Surge Protection	+/- 0.5 kV DC Ports, +/- 1 kV Signal Ports		
Industrial Bus	Modbus ASCII / RTU		
Bias	1 KΩ Switchable		
Termination	120 Ω Switchable		
Connectors	RS-232 – DB9F (DCE) RS-422/RS-485 – Removable Terminal Block		
POWER			
Source	External, required (not included, sold separately)		
Power Connector	Terminal Block		
Input Voltage	10 to 30 VDC		
Power Consumption	1.0 Watt, maximum		
INDICATORS			
TD / RD	Green LED (also used to indicate power)		
MECHANICAL			
Dimensions	99.1 x 22.9 x 73.7 mm		
Enclosure	IP30, metal, with two panel mount brackets		
Weight	0.15 kg		

MEANTIME BETWEEN FAILURES (MTBF)		
BB-SCP211-DFTB3	313926 hours	
BB-SCP311T-DFTB3	217576 hours	
MTBF Calculation Method	MIL 217F Parts Count Reliability	
ENVIRONMENTAL		
Operating Temperature		
BB-SCP211-DFTB3	0 to +70 °C	
BB-SCP311T-DFTB3	-40 to +80 °C	
Storage Temperature	-40 to +85 °C	
Operating Humidity	0 to 95%, non-condensing	
APPROVALS, DIRECTIVES, STANDARDS		
Emissions	FCC Class B, CISPR Class B (EN55022)	
Regulatory	UL Listed, UL File Number: E222870	
CE - Directives	2014/30/EU – Electromagnetic Compatibility Directive 2011/65/EU amended by (EU) 2015/863 Reduction of Hazardous Substances (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	
BB-SCP311T-DFTB3 only Standards - other	EN61000-6-2 – Generic Immunity Standard for (Heavy) Industrial Environments	

MECHANICAL DRAWING



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Interface Modules category:

Click to view products by B&B Electronics manufacturer:

Other Similar products are found below :

IFD8520 cPCI-3544 422CON ATX6022/14GP7 ATX6022/8 AX93221-24/48 FC6A-EXM2 OPT8AP-AE 96RMKVM-19V1C-A 60016-011 60016-014 60006-008 60011-075 HPCI-14S12U cBP-3208 cBP-3062A FAB205-6P5 ATX6022/6 60016-012 96RMKVM-17V1C-A MOS-1120Y-0201E 96RMLCD-17V1-A 96RMKVM-17V8C-A 60004-005 60016-017 60006-009 60016-035 60016-034 60016-031 60016-030 60016-026 60016-024 60016-018 60016-007 60016-005 60007-002 60006-010 AXX10GBTWLHW3 382-BBEH 555-BDCL K6CMISZBI52 426451401-3 60011-093 MIC-3620/3-BE MPCIE-UART-KIT02-R20 RSM232 PCIE-1680-AE BB-FOSTCDRI 73-544-002 UC-313