

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!



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Industrial RS-232 to RS-422/485 Converters

Models SCP211-DFTB3, SCP211T-DFTB3, SCP311T-DFTB3





PRODUCT FEATURES

- · Isolated and Non-Isolated Models
- ESD Protection 8 kV Contact, 15 kV Air
- Rugged Metal Case
- Wide Operating Temperature Models
- Panel Mount with Available DIN Rail Adapters
- Built-in Switchable Bias & Termination
- UL Listed

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

Basic model SCP211-DFTB3 is non-isolated and made for less demanding temperature extremes. If you need a wider operating temperature but do not require isolation, model SCP211T-DFTB3 is available. These models should be used when isolation is not required, such as applications in which the data line does not exit the control cabinet.

Model SCP311T-DFTB3 offers 2 kV isolation and will stand up to -40 to 80° C temperature variations. This is our most rugged model in this series. The SCP311 is an excellent investment for protecting your expensive control equipment.

ORDERING INFORMATION

MODEL NUMBER	DESCRIPTION
SCP211-DFTB3	RS-232 to RS-422/485 Converter
SCP211T-DFTB3	RS-232 to RS-422/485 Converter, Wide-Temperature
SCP311T-DFTB3	RS-232 to RS-422/485 Converter, Wide-Temperature, Isolated

ACCESSORIES

MDR-40-24 - Power Supply, 24VDC, 1.7 A output power, DIN rail mount

DRAD35 - DIN Rail Mounting Clips, 35 mm

TBKT1 - Replacement Terminal Block, 2 position, 5.08 mm

TBKT4 - (2) Replacement Terminal Block, 5 position, 5.08 nmm

9PAMF6 - RS-232 Serial Cable, DB9 male to DB9 female, 1.8 m (6 ft.)

232AMF500 - RS-232 Serial Cable, DB25 male to DB25 female, 1.8 m (6 ft.)

SPECIFICATIONS

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 SCP311T-DFTB3)	
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	
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	99x22.9x73.7 mm (3.9x0.9x2.9 in)	
Enclosure	IP30, Metal	
Weight	0.33 lbs, 0.15 kg	

MEANTIME BEFORE FAILURE (MTBF)		
MTBF SCP211 Series	313926 hours	
MTBF SCP311-DFTB3	217576 hours	
MTBF Calc. Method	MIL 217F Parts Count Reliability	
ENVIRONMENTAL		
Operating Temperature		
SCP211-DFTB3	0 to 70°C	
SCP211T-DFTB3	-40 to 80°C	
SCP311T-DFTB3	-40 to 80°C	
Storage Temperature	-40 to 85°C	
Operating Humidity	0 to 95% Non-condensing	
APPROVALS / CERTIFICATIONS		
Regulatory	UL Listed, UL File Number: E222870	
Emissions	FCC Class B, CISPR Class B (EN55022)	
CE	EN61000-6-2 (Heavy Industrial) EN61000-4-2 (ESD) 8kV contact, 15kV air EN61000-4-3 (RI) 10 V/m EN61000-4-4 (EFT Burst) 1kV signal, 2kV power EN61000-4-5 (Surge) 1kV signal, 500V DC, 1kV AC EN61000-4-6 (CI) 10 Vrms	

All product specifications are subject to change without notice. SCP211x & SCP311T-DFTB3 series_3317ds

