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Dual Purpose Rackmountable or Standalone Serial Communications Media Converters

Alloy's SCR series are designed for use either as standalone Serial Media Converters, or can be installed as Media Converter Modules in an Alloy DCR12 series rackmount 12-slot Media Converter Chassis. Used in Standalone mode, these Converters can be desktop mounted or, with an optional DIN Rail kit, be installed in industrial cabinets and racks.

SCR series Converters are point-to-point transmission devices, used to extend serial communications over multimode or singlemode fibre to a maximum range of 20 kilometres.

All models in the series are 'triple mode' devices, supporting DIP switch selectable RS-232, RS-422, or RS-485 serial communications.

Auto baud rate detection and direction is supported, with a maximum data transfer rate of 460.8Kbps.

Individual models feature media conversion options for copper DB-9 or terminal block to fibre multimode or singlemode terminated in ST or SC.

SCR Serial Converters feature a robust all metal case, with a design that provides high levels of immunity to EMI and EMS.

SCR460SC-1: DB-9 Copper to SC multimode fibre Serial Converter

SCR Serial Communications Converter Family - Key Features

- ✓ Dual purpose design – use 'Standalone" or install Converter Modules in an Alloy DCR12 Media Converter Chassis
- ✓ Triple mode RS-232/422/485 operation
- ✓ Extend Serial signals up to 20 kilometres over fibre optic cable
- ✓ DB-9 copper to multimode or singlemode
- ✓ Terminal Block to multimode or singlemode
- ✓ 460.8Kbps maximum data transfer rate
- ✓ All models with auto Baud rate detection
- ✓ Excellent EMI/EMS immunity
- ✓ Rugged, compact all metal case

Technical Specifications

	Copper to Multimode Fibre	Copper to Singlemode Fibre
Part Numbers	SCR460SC-1 SCR460SC-2 SCR460ST-1 SCR460ST-2	SCR460SC-3 SCR460SC-4 SCR460ST-3 SCR460ST-4
Standards Compliance	RS-232: TIA/EIA-232 (ITU-T V.28) RS:422:TIA/EIA-422 (ITU-T V.11) RS-485: TIA/EIA-485 (ISO/IEC8284)	
Connectors	SCR460SC-1 & SCR460SC-3: DB-9 (serial), SC (Fibre) SCR460SC-2 & SCR460SC-4: Terminal block (serial), SC (Fibre) SCR460ST-1 & SCR460ST-3: DB-9 (serial), ST (Fibre) SCR460ST-2 & SCR460ST-4: Terminal block (serial), ST (Fibre)	
Transmission Mode	Point-to-point	
Data Transfer Rate	300Bps to 460.8Kbps (auto Baud rate and direction selection)	
Fibre Cable Types Supported	Multimode: 50/125, 62.5/140μm Singlemode: 8.3/125,8.7/125,9/125,10/125μm	
Wavelength	1310nm	1550nm
Max. Copper Range (typical maximums using standard cable)	RS:232: 15 metres RS:422: 1200 metres RS:485: 1200 metres	
Max. Fibre Range	2 Kms	20 Kms
Serial Mode Selection DIP switch selectable:	RS-232 (default) RS-422 (4 Watt) RS-485 (4 Watt) RS-485 (2 Watt)	
Termination Selection DIP switch selectable	Disable Termination Insert 120 Terminator on RS-485 TX/RX wire Insert 100 Terminator on RS-422 TX/RX wire	
Diagnostic LED	Fibre LINK/ACT DATA (Copper) Power	
Power Supply	1A@5VDC from AC-DC Adaptor (85-264VAC input, 5VDC output)	
Temperature	Ambient: 0°C - 50°C	
Humidity	5% - 90%	
Dimensions	26.2(H) x 70.3 (W) x 94 (D) mm	
Weight	225 grams	
Installation	Desktop/shelf DIN Rail (optional) DCR12 12-Slot Media Converter Chassis (optional)	
Compliance	• FCC Part 15 Class A • CE Mark Approval • C-Tick	

Wide Range of Serial Media Converters

SCR Series includes DB-9 or Terminal Block to multimode or singlemode fibre models.

High Performance Triple Mode Serial Devices

SCR Converters support RS-232, RS-422 and RS-485 serial communications, with a high maximum data transfer rate of 460.8Kbps.

Cable Types

50/125, 62.5/140μm multimode and 8/125,8.7/125,9/125,10/125μm singlemode cable types are supported, with Converters offering SC and ST termination.

Other Alloy Converters

SCR Serial Converters are part of a wider range of Ethernet, Fast Ethernet, Gigabit Ethernet, WDM and ATM Media Converters.

Dual Purpose Converters

SCR Series Converters can be used either as standalone devices (either shelf mounted or installed with an optional DIN Rail kit), or installed in an Alloy DCR12 Series 12-slot Rackmount Media Converter Chassis

Ordering Information

SCR460SC-1	RS-232/422/485 Serial DB-9 to Multimode Fibre, range 2Kms
SCR460SC-2	RS-232/422/485 Serial Terminal to Multimode Fibre, range 2Kms
SCR460SC-3	RS-232/422/485 Serial DB-9 to Singlemode Fibre, range 20Kms
SCR460SC-4	RS-232/422/485 Serial Terminal to Singlemode Fibre, range 20Kms
SCR460ST-1	RS-232/422/485 Serial DB-9 to Multimode Fibre, range 2Kms
SCR460ST-2	RS-232/422/485 Serial Terminal to Multimode Fibre, range 2Kms
SCR460ST-3	RS-232/422/485 Serial DB-9 to Singlemode Fibre, range 20Kms
SCR460ST-4	RS-232/422/485 Serial Terminal to Singlemode Fibre, range 20Kms
DRK-35	DIN Rail Kit

SCR Series
Serial Communications Media Converters