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!

Contact us

▶▶▶ Industrial Isolated Converter

The SER-485-FXC is our premium Industrial Serial to Multi-mode Fiber Optic Converter. Designed for rugged industrial environments, it is UL approved and certified for use in Class 1 Division 2 environments. In addition to direct point-to-point connectivity, it is capable of operating in a multi-drop mode. This allows one serial device to communicate with up to 31 other devices around a fiber ring. Since it supports mixed standards, you can replace other converters and isolators and add the EMI / RFI protection inherent to fiber optic communications.

PRODUCT FEATURES
- Data Rates up to 115.2 kbps
- 10 – 48 VDC Input Power Range
- Wide Operating Temperature
- 3-Way 2000V Optical Isolation
- MODBUS ASCII/RTU Compatible
- EMI / RFI Protection
- UL Class 1 DIV 2
- Built-in, Switchable Termination & Bias

PRODUCT OVERVIEW
In RS-232 mode, the converter supports transmit and receive data. Handshaking signals are not passed through. An Automatic Send Data Control circuit controls the RS-422/485 driver chip, eliminating the requirement for external software.

Easy to install and configure, it has a 12 position DIP Switch on the bottom to configure RS-422/485 parameters. The serial data and power cables connect to removable terminal blocks. ST connectors are used for the fiber.

Specifications

Serial Technology
RS-232	TD, RD, GND
RS-485 2-Wire	Data A(-), Data B(+), GND
RS-422/485 4-Wire	TDA(-), TDB(+), RDA(-), RDB(+), GND
Serial Connector	5 Position, Removable Terminal Block
Data Rate	9.6 to 115.2 kbps
Isolation	2KV RMS, 1 minute
Surge Protection	600 W Peak Power Dissipation Clamping time < 1 pico-second
Industrial Bus	MODBUS ASCII/RTU
Bias	Built-in, Switchable, 1.2KΩ
Termination	Built-in, Switchable, 120Ω

Fiber Optic Technology
Type / Wavelength	Multimode / 820 nm
Output Power	-16dBm min, -12dBm typ. -9dBm max
Receive Sensitivity	-24dBm min, -25.4dBm max
Cable	62.5/125 micro-meter
Connector	ST
Data Rate	9.6 TO 115.2 kbps
Maximum Distance	2.5 miles (4 km)
Idle State	Transmitter Light ON

Power
Source	External
Power Connector	2 Position, Removable Terminal Block
Input Voltage	10 to 48 VDC (56 VDC max)
Power Consumption	0.5 W (Typical), 1.3W (w/ Termination)
Power Supply Part #	NTPS 24-1.3

Terminal Blocks
Wire Size Accepted	28 to 12 AWG
Pitch	5.08 mm
Insulation Resistance	≥ 500 MΩ @ 500 VDC
Maximum Torque	5 Kg / cm

Indicators
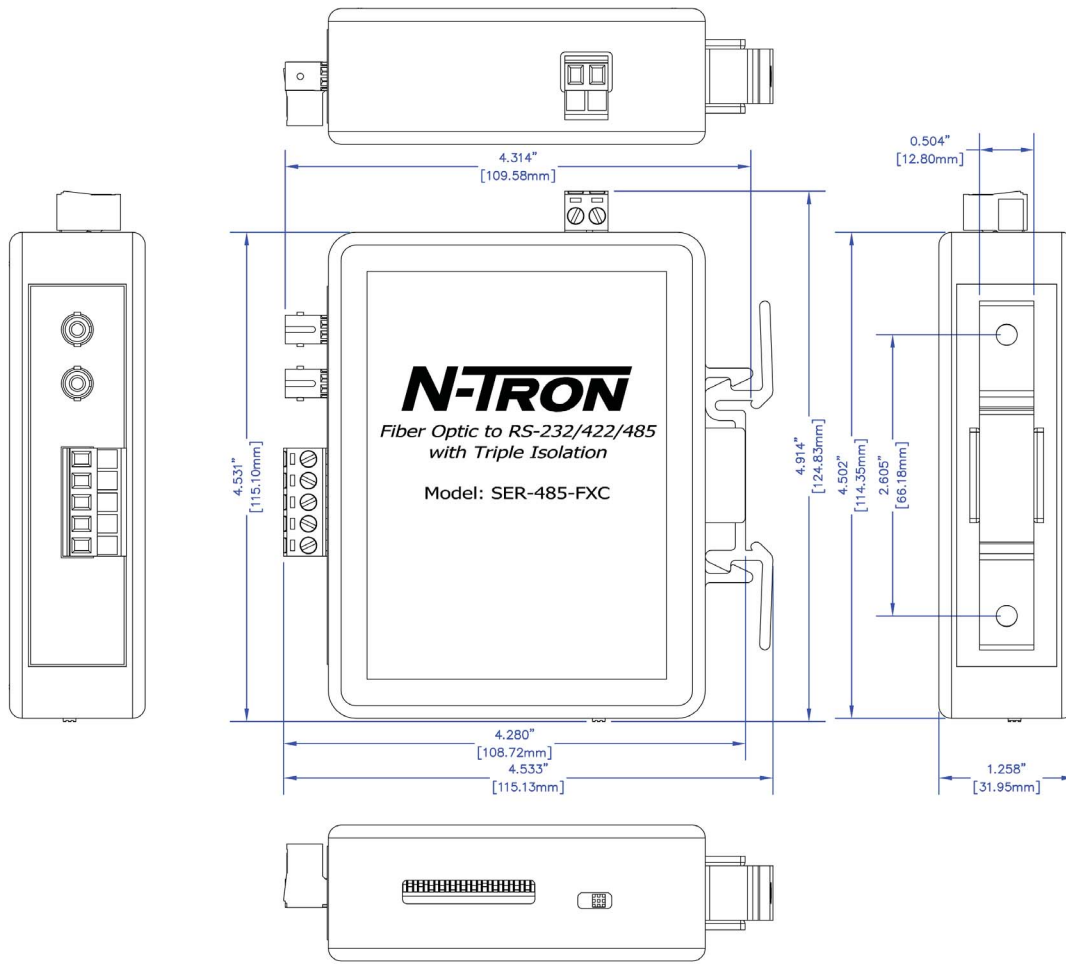|	
Power	Red LED
FO Receive	Red LED
FO Transmit	Red LED

Mechanical
Dimensions	4.9 x 4.5 x 1.3 in (12.3 x 11.3 x 3.2 cm)
Enclosure	IP 20 Plastic, 35 mm DIN Mount
Weight	0.44 lbs (199.6 g)
MTBF	138904 hours
MTBF Calc. Method	Parts Count Reliability Prediction

Environmental
Op Temperature	- 40 to 80°C (-40 to 176°F)
Storage Temp	- 40 to 85°C (-40 to 185°F)
Op Humidity	0 to 95% Non-condensing
RegulatoryApprovals	FCC, CE, UL Class 1 DIV 2 Groups A, B, C, D

QUALITY MANAGEMENT SYSTEM
CERTIFIED BY DNV
ISO 9001:2008

N-TRON
Fiber Optic to RS-232/422/485
with Triple Isolation

Model: SER-485-FXC

4.314"
[109.58mm]

0.504"
[12.80mm]

4.531"
[115.10mm]

4.914"
[124.83mm]

4.502"
[114.35mm]

2.605"
[66.18mm]

4.280"
[108.72mm]
4.533"
[115.13mm]

1.258"
[31.95mm]

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As the global experts in communication, monitoring and control for industrial automation and networking, Red Lion has been delivering innovative solutions for over forty years. Our award-winning technology enables companies worldwide to gain real-time data ... N-Tron and Sixnet. With headquarters in York, Pennsylvania, the company has offices across the Americas, Asia-Pacific and Europe. For more information, please visit www.redlion.net. Red Lion is a Spectris company.