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Electro Standards Laboratories
ADVANCED SYSTEMS DESIGN & SERVICES

MADE IN USA

SPECIFICATIONS

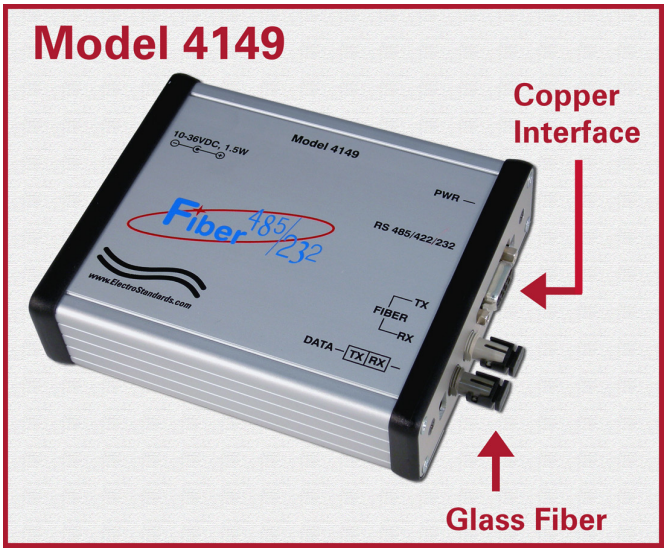
Desktop Unit... Model 4149 (Cat No. 304149)
DIN Rail Mounted Unit... Model 4149-DIN (Cat No. 304149-DIN)
Board Unit... Model 4159 (Cat No. 304159)
Conformal Coated Board Unit... Model 4159CC (Cat No. 529806)

Very High Speed Ruggedized ST Fiber-to-RS485/422/232 Interface Converter

- **Four popular configurations, Fiber-to-Copper Media Converters.**

The Model 4149/4149-DIN/4159/4159CC is a very high speed ruggedized, protocol independent, Fiber to RS485/422/232 interface converter from Electro Standards Laboratories. Typical operating speeds are up to 1.5 Mbps for RS232 to fiber conversion and up to 5 Mbps for RS485/422 to fiber conversion. Designed to operate from -40°C to +85°C, it is a member of Electro Standards Laboratories' (ESL) rugged community fiber-to-copper media converter family.

The unit features protection circuitry on all receivers and transmitters for both RS232 and RS485/422 interfaces. The converter is available in a desktop package (Model 4149) with optional DIN rail mounting hardware (Model 4149-DIN). It is also available as a board only (Model 4159/4159CC) with front mounted threaded brackets for rack mounting in embedded applications. **Model 4159-CC is a Conformal Coated Printed Circuit Board (PCB) for military and harsh environments.**



The unit's power input is protected from transients and features 3kVDC isolation to prevent system ground loops. It can be powered from a wide input range of 9VDC-36VDC. Custom models are also available for other voltage ranges such as 4.5VDC-9VDC and 19VDC-72VDC.

Other features include user selectable fiber polarity, TX, RX and Power indicator LEDs. There are also dual DB9 power connectors (Model 4159/4159CC only) for convenience in bused power applications.

SPECIFICATIONS:

Glass Fiber Interface:
- Connectors: Fiber Optic ST
- TX Power: -12.5 dBm
- RX Sensitivity: -27.5 dBm
- Optical Budget: 15 dB
- Max. Link Distance with 62.5/125 µm fiber:
  - 5.35 km at up to 5 Mbps, 25°C
  - 3.75 km at up to 5 Mbps, -40°C to +85°C
- Wavelength: 820 nm/850 nm, multimode
- Fiber Size: 50/125 µm, 62.5/125 µm, 100/140 µm

Fiber Polarity:
- Logical 1 = Light ON/OFF: User Selectable

Copper Interface:
- Connectors: DB9, Female
- Type: RS485, RS422, RS232
- Terminations: RS485/422 120 Ohm insertable

Bit Rate (nom.):
- RS232: 0 to 1.5 Mbps
- RS485/422 0 to 5 Mbps

Indicators:
- LEDs: TXD, RXD, PWR

GSA Schedule Contract GS-35F-0286V

★ **Municipalities, schools, government: Model 4149 and Model 4159 are offered on the GSA Schedule.**

Power:
- Input Power: 9VDC-36VDC std, 4.5VDC-9VDC, 19VDC-72VDC, Others at 1.5W.
- Isolation: 3 kVDC
- Connectors: Dual DB9F for Power Daisy Chaining (board only), DC Power Jack (desktop unit)

Operating Environment:
- -40°C to +85°C

Model 4159/4159CC Mechanical (Board Only):
- Model 4159, Cat No 304159/529806
- Size: 4.16" W x 0.67 H" x 5.38" D (10.6 x 1.8 x 13.7 cm)
- Weight: Approx. 0.3 lbs. (113g)
- Mounting: Mounting Holes, Right Angle Brackets

Model 4149 Mechanical (Desktop Unit):
- Model 4149, Cat No 304149
- Size: 4.2" W x 1.48" H x 5.63" D (10.7 x 3.8 x 14.3 cm)
- Weight: Approx. 0.7 lbs. (302g)

Model 4149-DIN Mechanical (DIN Rail Mounted Unit):
- Model 4149-DIN, Cat No 304149-DIN
- Size: 4.26" W x 1.33" H x 5.6" D (4.26 x 3.4 x 14.2 cm)
- Weight: Approx. 0.7 lbs. (316g)
- Mounting: 2 Threaded Holes Standard, DIN rail
- DIN Rail Bracket Size: 2.84" x 1.24" x 0.16"
- DIN Rail Bracket Weight: 0.9 oz (25.5g)

36 Western Industrial Drive, Cranston, RI 02921
Tel: 401-943-1164 Fax:401-946-5790
www.ElectroStandards.com
E-mail:eslab@ElectroStandards.com

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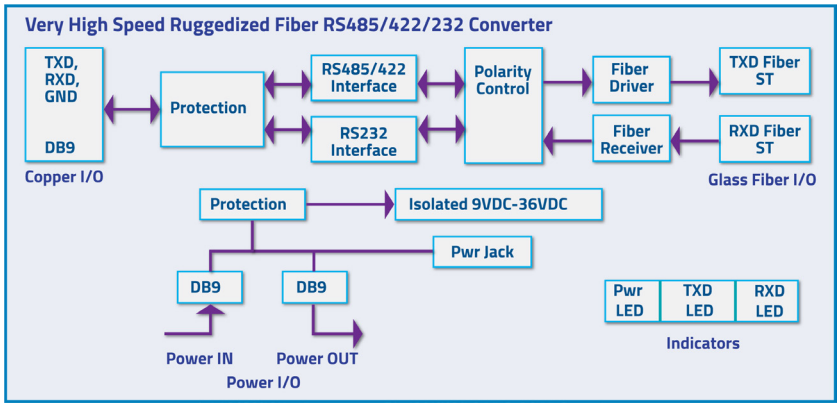
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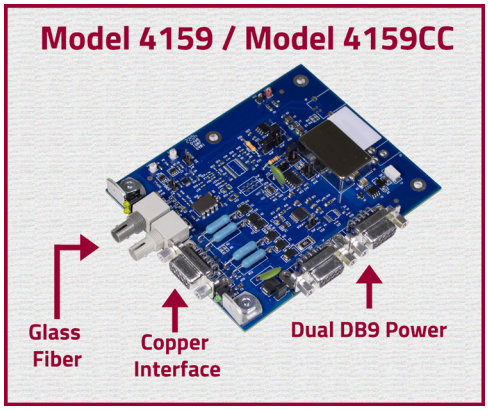
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SPECIFICATIONS

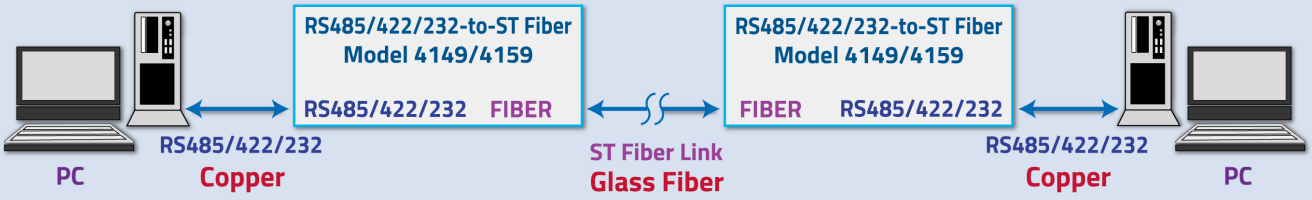
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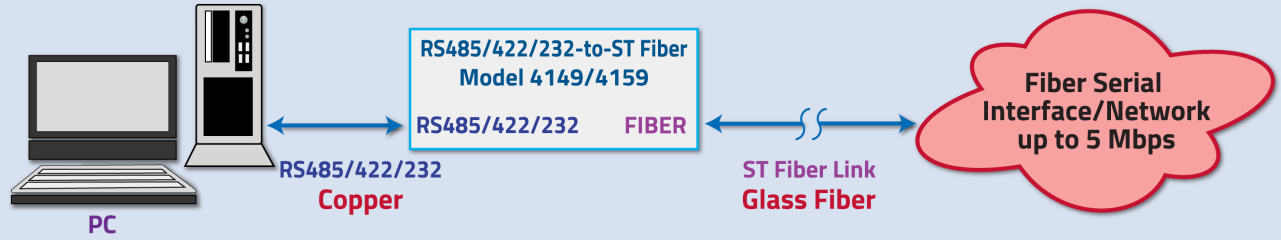


Model 4149/4149-DIN/4159/4159CC Application:



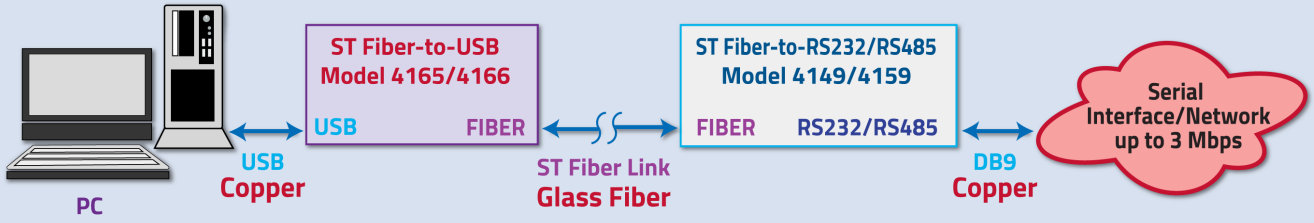
Point-to-Point Isolated PC RS485/422/232 Communication

Model 4149/4149-DIN/4159/4159CC Application:



Isolated PC RS485/422/232 communications to fiber serial interface/network.

Model 4165/4165-DIN, & 4166 to Model 4149/4149-DIN & 4159/4159CC Application:



Isolated PC USB to RS232/RS485 communications serial interface/network.

36 Western Industrial Drive, Cranston, RI 02921
Tel: 401-943-1164 Fax: 401-946-5790
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