

RS422/485 Copper to Fiber Media Converter



- ▶ Ideal for campus or business environments where remote devices can be networked in either a point-to-point or point to multi-point configuration.

Link a remote terminal to a host computer. Connect multiple devices, such as security scanners, POS devices, remote terminals and building access/alarming systems to a host computer.

Transition Networks's serial RS-422/485 to Fiber Media Converter allows you to extend the distance between serial connections with the use of fiber optic cable. This full-featured converter operates in 2-wire mode for RS-422 and either 2-wire or 4-wire mode for RS-485 and supports full or half-duplex data transmission at speeds up to 1.25 Mb/s.

Features

- ▶ RS422 or RS485 operation
- ▶ 2-wire or 4-wire in operation in RS-485 mode
- ▶ Full/Half-duplex transmission at speeds up to 1.25 Mb/s
- ▶ Remote Firmware Upgrade *see next page*
- ▶ Can be used with any Point System™ Chassis

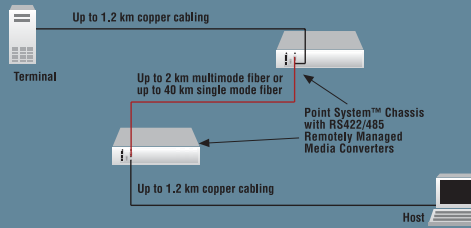
Management Features

- ▶ Report converter status to chassis management software:
 - Local Fiber Link status
 - Receive data activity on the copper link
 - Local Switch settings
 - 130 ohm resistor on Rx
 - 130 ohm resistor on Tx
 - 1k ohm "pull down"
 - 1k ohm "pull up"
 - 2-wire / 4-wire operation
 - RS-485 / RS-422 operation

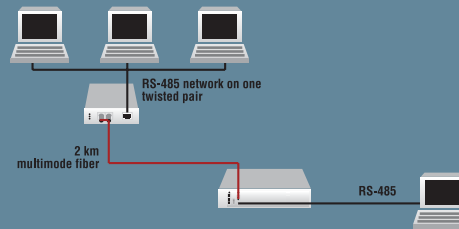
CRS4F3x1x-100



Extend Network Distance



Connect Multiple Devices



Specifications

See next page for complete fiber optic connector specs.

Standards	EIA/TIA RS-422, EIA/TIA RS-485
Switches	SW1: 130 ohm resistor Rx (Down = enable) SW2: 130 ohm resistor Tx (Down = enable) SW3: 1k ohm "pull-down" (Down = enable) SW4: 1k ohm "pull-up" (Down = enable) SW5: 2-wire / 4-wire (Down = 4-wire) SW6: RS-485 / RS-422 (Down = RS-422)
Status LEDs	PWR: Power: Lit for normal operation RXC: Steady = Data Rx on copper link; Flashing = Rx Data at low speed RXF: Steady = Fiber Link
Dimensions	Width: 0.86" [22 mm] Depth: 5.0" [127 mm] Height: 3.4" [86 mm]
Power Consumption	5.0 watts
Environment	See chassis specifications
Shipping Weight	1 lb. [0.45 kg]
Regulatory Compliance	CISPR22/EN55022; EN55024; EN60950 Class A; FCC Class A; CE Mark; UL 1950
Warranty	Lifetime

Ordering Info

See next page for complete fiber optic connector specs.

- CRS4F3111-100**
DB-9 [1.2 km/0.7 mi.]
to 1300nm multimode (ST)
[2 km/1.2 mi.] Link Budget: 11.0 dB
- CRS4F3113-100**
DB-9 [1.2 km/0.7 mi.]
to 1300nm multimode (SC)
[2 km/1.2 mi.] Link Budget: 11.0 dB
- CRS4F3114-100**
DB-9 [1.2 km/0.7 mi.]
to 1310nm single mode (SC)
[20 km/12.4 mi.] Link Budget: 16.0 dB
- CRS4F3115-100**
DB-9 [1.2 km/0.7 mi.]
to 1310nm single mode (SC)
[40 km/24.9 mi.] Link Budget: 26.0 dB
- CRS4F3211-100**
Terminal Block [1.2 km/0.7 mi.]
to 1300nm multimode (ST)
[2 km/1.2 mi.] Link Budget: 11.0 dB
- CRS4F3213-100**
Terminal Block [1.2 km/0.7 mi.]
to 1300nm multimode (SC)
[2 km/1.2 mi.] Link Budget: 11.0 dB
- CRS4F3214-100**
Terminal Block [1.2 km/0.7 mi.]
to 1310nm single mode (SC)
[20 km/12.4 mi.] Link Budget: 16.0 dB
- CRS4F3215-100**
Terminal Block [1.2 km/0.7 mi.]
to 1310nm single mode (SC)
[40 km/24.9 mi.] Link Budget: 26.0 dB

CRS4F3x1x-100 Fiber Optic Connector Specs

Product SKU	Min TX PWR (dBm)	Max TX PWR (dBm)	RX Sensitivity (dBm)	Max In PWR (dBm)	Link Budget (dB)
CRS4F3111-100	-19.0	-14.0	-30.0	-14.0	11.0
CRS4F3113-100	-19.0	-14.0	-30.0	-14.0	11.0
CRS4F3114-100	-15.0	-8.0	-31.0	-8.0	16.0
CRS4F3115-100	-8.0	-2.0	-34.0	-7.0	26.0
CRS4F3116-100	-5.0	0.0	-34.0	-7.0	29.0
CRS4F3211-100	-19.0	-14.0	-30.0	-14.0	11.0
CRS4F3213-100	-19.0	-14.0	-30.0	-14.0	11.0
CRS4F3214-100	-15.0	-8.0	-31.0	-8.0	16.0
CRS4F3215-100	-8.0	-2.0	-34.0	-7.0	26.0



► Remote Firmware Upgrade

New product features are continuously being added to Transition Networks's products. These improvements are also available for many products already installed in the field. Management modules and many media converters can be updated remotely via firmware upgrade. The remote upgrade feature eliminates the need to ship the products back to the manufacturer. The firmware upgrades can be performed by a user either locally via a Console port or remotely via TFTP.

The upgrades do not require the reconfiguration of the SNMP management or converter feature settings.

If someone tells you media conversion is a commodity product that anyone can bring to market, they probably haven't looked at the extensive product suite offered by Transition Networks. With the industry's most comprehensive offering of full-featured products, Transition's media converters stand out as "the choice" among industry IT professionals.

Generally, media converters are low-level OSI model devices with no IP or MAC addresses and therefore are transparent to the network. This "transparency" makes them very inexpensive and easy to use, but also can make troubleshooting the network very difficult. In an effort to overcome this difficulty and to make media converters "visible" to network managers, Transition has designed their full-featured products to include the most advanced features on the market today.