RS232 Copper to Fiber with Remote Management

Stand-Alone Media Converters

SRS2F311x-100

Convert DB-9 to Fiber

▶ Extend Network Distance

Terminal

Up to 15 meters copper cabling

RS232 Remotely Managed Media Converter

Up to 2 km multimode fiber or up to 40 km single mode fiber

Up to 15 meters copper cabling

RS232 Remotely Managed Media Converter
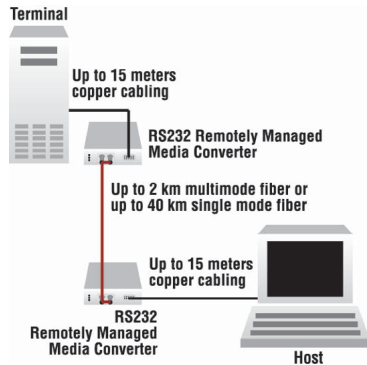
Host

▶ Extend Network Distance

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. Ideal for campus or business environments where remote devices can be networked in a point-to-point configuration where distances are greater than the 15 meter limitation of conventional copper serial cables.

Transition Networks' serial RS232 to Fiber Media Converter allows you to extend the distance between serial connections with the use of fiber optic cable. This full-featured converter transmits the full complement of RS232 flow control/handshaking signals optically and supports full or half-duplex asynchronous data transmission at speeds up to 115Kb/s.

The diagnostic features included on this converter make installation easy and intuitive. A DTE/DCE switch eliminates the frustration over selecting the appropriate cable. A loop-back switch allows for complete diagnostic testing prior to system turn-up or during troubleshooting. Unit and Port LEDs allow for quick status information of the converter.

In addition to status LEDs and switch settings for local management, these converters can also be managed from remote locations when used in conjunction with a managed Point System™ chassis.

Specifications

Standards	EIA/TIA-574, EIA/TIA RS-232E
Data Rate	115 Kb/s
Fiber Optic Connector Specs	
SRS2F3111-100 & SRS2F3113-100	Min TX PWR: -19.0 dBm Max TX PWR: -14.0 dBm RX Sensitivity: -30.0 dBm Max In PWR: -14.0 dBm Link Budget: 11.0 dB
SRS2F3114-100	Min TX PWR: -15.0 dBm Max TX PWR: -8.0 dBm RX Sensitivity: -31.0 dBm Max In PWR: -8.0 dBm Link Budget: 16.0 dB
SRS2F3115-100	Min TX PWR: -8.0 dBm Max TX PWR: -2.0 dBm RX Sensitivity: -34.0 dBm Max In PWR: -7.0 dBm Link Budget: 26.0 dB
Switches	**DTE/DCE:** Select appropriate position **Loop-back:** Norm = normal operation; Loop = Fiber and copper loop-back
Status LEDs	**P: (Power):** Lit for normal operation **RX:** Steady = Copper Link; Flashing = Rx Data **FL:** Steady = Fiber Link; Flashing = Loop back mode
Dimensions	Width: 3.3" [84 mm] Depth: 4.8" [122 mm] Height: 1.2" [30 mm]
Power Consumption	5.0 watts
Power	External AC/DC; 12VDC, 0.5A min
Environment	0 – 50°C, 5% – 95% humidity (non-condensing), 0 – 10,000 feet
Shipping Weight	2 lbs. [0.9 kg]
Safety Compliance	**Wall Mount Power Supply:** UL approved and CSA certified
Regulatory Compliance	CISPR22/EN55022 Class A + EN55024; EN60950 Class A; FCC Class A; CE Mark
Warranty	Lifetime

Features

▶ **Remote management**

▶ **Local or Remote Loopback**
on copper and fiber *(see next page)*

▶ **DTE/DCE switch** for easy installation with straight-through cabling

▶ **Full/Half-duplex asynchronous transmission at speeds up to 115Kb/s**

▶ **Supports the following flow control signaling:**

1. DCD - Data Carrier Detect
2. RXD - Receive Data
3. TXD - Transmit Data
4. DTR - Data Terminal Ready
5. SG - Signal Ground
6. DSR - Data Set Ready
7. RTS - Request To Send
8. CTS - Clear To Send

Ordering Info

Product Number	Port One	Port Two
SRS2F3111-100	DB-9 [15 m/49 ft.]	1300nm multimode (ST) [2 km/1.2 miles]
SRS2F3113-100	DB-9 [15 m/49 ft.]	1300nm multimode (SC) [2 km/1.2 miles]
SRS2F3114-100	DB-9 [15 m/49 ft.]	1310nm single mode (SC) [20 km/12.4 miles]
SRS2F3115-100	DB-9 [15 m/49 ft.]	1310nm single mode (SC) [40 km/24.9 miles]

Optional Accessories *(sold separately)*

| Product Number	Description
SPS-1872-PS	Wide Input (18-72VDC) Piggy Back Power Supply
SPS-1872-SA	Wide Input (18-72VDC) Stand-Alone Power Supply
E-MCR-04	12-slot Media Converter Rack
WMBD	DIN Rail Mount Bracket 5.0" [127 mm]
WMBD-F	DIN Rail Mount Bracket (flat) 3.3" [84 mm]
WMBL	Wall Mount Bracket 4.0" [102 mm]
WMBV	Vertical Wall Mount Bracket 5.0" [127 mm]

ADVANCED PRODUCT FEATURES & CERTIFICATION

▶ Loopback

Select Transition Networks products are equipped with Loopback. This feature puts a converter in a special mode that enables the device to loop back the signal from the RX port to the TX port on either media for testing and troubleshooting purposes. Test signals from a tester (Firebird, etc.) can then be inserted into the link and looped back as received by a device to test a particular segment of the link (i.e. copper or fiber). Loopback can be either local or remote depending on the location of the converter in the link.

▶ Allows network diagnostics from local or remote location

▶ Quickly pinpoints problem areas of end to end link by testing a particular segment
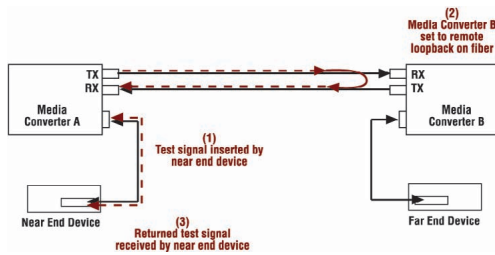
Some converters have separate copper and fiber loopback functions that can be enabled separately, while others will loopback both copper and fiber at the same time when enabled. Please refer to the specific product page for details.

▶ Remote Management

All chassis-based converters from Transition Networks® can be managed through SNMP. Now, select stand-alone products can also be managed through SNMP when used in conjunction with a chassis based converter. While chassis based products are generally placed in the telecommunications room, stand-alone converters are generally placed in remote locations away from network administrators. Remote in-band management over fiber allows administrators access to the remote device to check status and enable/disable features or the device itself.

▶ Visibility of remote converters for network administrators

▶ Allows for centralized management of media converters

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.

TRANSITION networks®
The Conversion Technology Experts