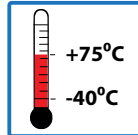


**HARDENED 2-PORT MEDIA CONVERTER - 2 CHANNELS WITH
 2x10/100BASE-T(X) RJ45 PORTS AND 2xFIXED OPTIC PORTS, 2 FIBERS PER CHANNEL**



MEDIA CONVERTER

FEATURES

- 10/100 Base-T Ethernet Auto-negotiation
- Full Duplex or Half-duplex Supported
- Two independent channels in one card
- IEEE 802.3 Compliant
- Wide Operating Temperature
- FC and ST Optical Connectors Standard, SC Optional
- Distances Up To 80km
- Hot Swappable Rack Cards
- SpectraSmart™ Option

DESCRIPTION

The SX-2R-x (1-slot rack-mount cards) are Media converters designed for bi-directional transmission of 2 channels of 10Base-T Ethernet / 100Base-T Fast Ethernet data over four multimode or singlemode fibers (2 fibers per channel). Auto-negotiation eliminates the need for any internal adjustments or settings. Distances of up to 80km can be obtained using singlemode fiber. These cards are environmentally hardened and will operate over the standard NEMA TS-2 temperature range – suitable for outdoor installations. LEDs on the card indicate the status of power, link speed, activity, laser current and optical signal. Standard shielded RJ-45 connectors are provided for CAT5 compatibility. Optical connector options include ST, FC and SC. These units are available in either module or rack mount types. These cards are also compatible with Meridian's SpectraSmart network monitoring software when housed in the diagnostic chassis. (See the SpectraSmart brochure for additional details). The SX-2R-x cards are available as rack mount cards that can be installed in either Meridian's stand-alone, desk, or 19" chassis.

SPECIFICATIONS

Physical Ports

10/100 Base-T(X) Port in RJ45 Auto MDI/MDIX	2
ST, FC, SC	4

Technology

Ethernet Standards	IEEE 802.3 CSMA/CD IEEE 802.3i 10Base-T IEEE 802.3u 100Base-T
Data Rate	10/100 Mb/s
Fiber Data Rate	125 Mb/s

LED indicators

Power / Diagnostic	1 - Green (Power On), Flashing Green (Diag. Active), Red (Diag. Error)
Tx 10 Base-T(X)	2 - Green
Rx 10 Base-T(X)	2 - Green
Tx 100 Base-T(X)	2 - Green
Rx 100 Base-T(X)	2 - Green
Tx Activity	2 - Green
Rx Activity	2 - Green

Power

Power Consumption (Typ.)	4 Watts
Overload Current Protection	Yes

Physical Characteristic

Enclosure	Rack Card
Dimension (W x D x H)	20 (W) x 127 (D) x 160 (H) mm (0.8 x 5.0 x 6.3 inch)
Weight (g)	450 g (1 lb)

Environmental

Storage Temperature	-40 to 85°C (-40 to 185°F)
Operating Temperature	-40 to 75°C (-40 to 167°F)
Operating Humidity	5% to 95% Non-condensing

Optical Specifications

Optical Code	Fiber Type/Size (um)	Optical Output (dBm)	Receiver Sensitivity (dBm)	Optical Budget (dB)	Wavelength (nm)	Optical Connector	Optical Dynamic Range (dB)	Estimated Transmission Distance (km)
1	Multimode (FP Laser) 62.5 / 125	-5	-26	21	1300	ST	26	16
3	Singlemode (FP Laser) 9 / 125	-5	-26	21	1310	ST, FC, SC	26	60
6	Singlemode (FP Laser) 9 / 125	+2	-26	28	1310	ST, FC, SC	26	80
7	Singlemode (DFB Laser) 9 / 125	+2	-26	28	1550	ST, FC, SC	26	100

Ordering Information

Products	Part Number	Description
	SX-2R-1ST SX-2R-3ST	10/100 Media converter w/ST multimode optical port, Tx/Rx @ 1300nm 10/100 Media converter w/ST singlemode optical port, Tx/Rx @ 1310nm
	SX-2R-3SC SX-2R-6SC SX-2R-7SC	10/100 Media converter w/SC singlemode optical port, Tx/Rx @ 1310nm 10/100 Media converter w/SC singlemode optical port, Tx/Rx @ 1310nm 10/100 Media converter w/SC singlemode optical port, Tx/Rx @ 1550nm
	SX-2R-3FC SX-2R-6FC SX-2R-7FC	10/100 Media converter w/FC singlemode optical port, Tx/Rx @ 1310nm 10/100 Media converter w/FC singlemode optical port, Tx/Rx @ 1310nm 10/100 Media converter w/FC singlemode optical port, Tx/Rx @ 1550nm

Packing List

Media Converter	1
Quick Installation Guide	1