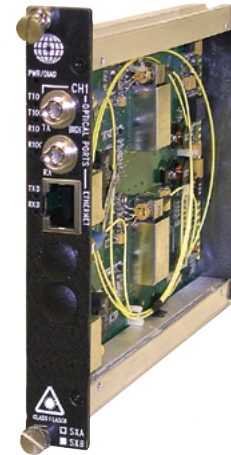
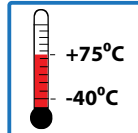


HARDENED 2 PORT MEDIA CONVERTER
1 PORT 10/100TX (RJ45) + 1 PORT FIXED OPTIC, 2 FIBER**MEDIA CONVERTER****FEATURES**

- 10/100 Base-T Ethernet Auto-negotiation
- Full Duplex or Half-duplex Supported
- IEEE 802.3 Compliant
- Laser Based Systems for Multimode & Singlemode
- FC and ST Optical Connectors Standard, SC Optional
- Distances Up To 80km
- Hot Swappable Rack Cards
- SpectraSmart™ Option

DESCRIPTION

The SX-1R-x (1-slot rack-mount cards) are Media converters designed for bi-directional transmission of 10Base-T Ethernet / 100Base-T Fast Ethernet data over two multimode or singlemode fibers. Auto-negotiation eliminates the need for any internal adjustments or settings. Distances of 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-1R-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		Power	
10/100 Base-T(X) Port in RJ45 Auto MDI/MDIX	1	Power Consumption (Typ.)	4 Watts
ST, FC, SC	2	Overload Current Protection	Yes
Technology		Physical Characteristic	
Ethernet Standards	IEEE 802.3 CSMA/CD IEEE 802.3i 10Base-T IEEE 802.3u 100Base-T	Enclosure	Rack Card
Data Rate	10/100 Mb/s	Dimension (W x D x H)	20 (W) x 127 (D) x 160 (H) mm (0.8 x 5.0 x 6.3 inch)
Fiber Data Rate	125 Mb/s	Weight (g)	450 g (1 lb)
LED indicators		Environmental	
Power / Diagnostic	1 - Green (Power On), Flashing Green (Diag. Active), Red (Diag. Error)	Storage Temperature	-40 to 85°C (-40 to 185°F)
Tx 10 Base-T(X)	1 - Green	Operating Temperature	-40 to 75°C (-40 to 167°F)
Rx 10 Base-T(X)	1 - Green	Operating Humidity	5% to 95% Non-condensing
Tx 100 Base-T(X)	1 - Green		
Rx 100 Base-T(X)	1 - Green		
Tx Activity	1 - Green		
Rx Activity	1 - Green		

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

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

Packing List	
Media Converter	1
Quick Installation Guide	1