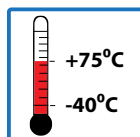
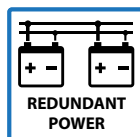


**HARDENED 1 PORT MEDIA CONVERTER - 1 CHANNEL**  
**1 PORT 10/100/1000TX (RJ45) + 1 PORT 1000 SFP**

**MEDIA CONVERTER**

## FEATURES

- 10/100/1000 Base-T Ethernet Auto-negotiation
- Full Duplex or Half-duplex Supported
- IEEE 802.3 Compliant
- User Selectable MDI/MDI-X
- Environmentally Hardened for Wide Temperature Applications
- NTCIP Compatible
- Far End Fault Function
- Link Fault Pass-through Function
- Laser Based Systems for Multimode & Singlemode
- Laser Back-Biased Photo Detector Circuitry for Stable
- Optical Output Over Full Temp. Range
- FC,ST Optical Connectors Standard, SC Optional
- Distances Up To 50km
- Hot Swappable Rack Cards
- Remote & Local Loop-back Supported with
- SpectraSmart™ Option
- Wide Optical Dynamic Range
- Supports Single Fiber Communications
- 12VDC & 24VAC Operation
- Spectrasmart™ Optional PC Based
- Network Management
- SFP Speed Detect
- Auto MDI/MDIX
- Jumbo Frames Support

## DESCRIPTION

The SX-1RE-SFP (single-slot rack cards) are Ethernet transceivers designed for bi-directional transmission of 10Base-T Ethernet / 100Base-T Fast Ethernet /1000Base-T GigE Ethernet data over one multimode or singlemode fiber. Since the data rate is auto-negotiated, no internal adjustments or setting are necessary. Distances of 50km can be obtained using singlemode fiber. The SX-1RE-SFP are environmentally hardened and will operate over the standard NEMA TS-2 temperature range - suitable for outdoor installations. LEDs on both the module and rack card indicate power, link speed, activity, laser current and optical signal. Standard shielded RJ-45 connectors are provided for CAT 5 compliance.

The SX-1RE-SFP incorporating industry standard Small Form Pluggable (SFP) optical modules for exceptional product versatility and performance.

The SX-1RE-SFP products are available as rack mount cards and modules that can be installed in either Meridian's desk chassis or in 19" racking frames. This system can be configured in either star (module to rack) or trunking (rack to rack) configurations. These systems can be made a standalone system by using the SR-500, SR-1000, 1 or 2 slot desk/wall mount chassis (87 VAC- 264VAC).

## SPECIFICATIONS

Physical Ports		Physical Characteristic	
10/100/1000 Base-T(X) Port in RJ45 Auto MDI/MDIX	1	Enclosure	Rack Card
1000Base-FX SFP port	1	Dimension (W x D x H)	20 (W) x 127 (D) x 160 (H) mm (0.8 x 5.0 x 6.3 inch)
Technology		Weight (g)	450 g
Ethernet Standards	IEEE 802.3 CSMA/CD IEEE 802.3i 10Base-T IEEE 802.3u 100Base-T IEEE 802.3ab 1000Base-T	Environmental	
Data Rate	10/100/1000 Mb/s	Storage Temperature	-40 to 85°C (-40 to 185°F)
Bit Error Rate	Better than 10 <sup>-9</sup>	Operating Temperature	-40 to 75°C (-40 to 167°F)
Fiber Data Rate	1250 Mb/s	Operating Humidity	5% to 95% Non-condensing
LED indicators		Regulatory approvals	
Power On	1- Green	EMI	FCC Part 15, CISPR (EN55022) class A
FX Link/ACT	Steady Green - link established on the fiber port Blinks Green - activity is detected on the fiber port OFF - fault is detected	EMS	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11
TX Link / ACT	Steady Green - link established on the cooper port Blinks Green - activity is detected on the cooper port OFF - fault is detected	Shock	IEC60068-2-27
Power		Free Fall	IEC60068-2-32
Power Consumption (Typ.)	4 Watts	Vibration	IEC60068-2-6
Overload Current Protection	Present	Safety	EN60950-1
		Warranty	
		5 Years	

Ordering Information	
Description	<b>SX-1RE-SFP - 10/100/1000 Media converter, 1 Port 10/100/1000TX (RJ45) + 1 Port 1000 SFP</b>
SFP Options	<b>Refer to Optical SFP Data Sheet for complete part numbers and ordering information</b>

Packing List	
<b>SX-1RE-SFP</b>	1
<b>Quick Installation Guide</b>	1