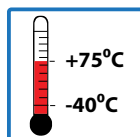


HARDENED 2 PORT MEDIA CONVERTER
1 PORT 10/100TX (RJ45) + 1 PORT FIXED OPTIC, 1 FIBER**MEDIA CONVERTER****FEATURES**

- 10/100 Base-T Ethernet Auto-negotiation
- Full Duplex or Half-duplex Supported
- Link Fault Pass-through Function
- IEEE 802.3 Compliant
- Environmentally Hardened for Wide Temperature Applications
- FC and ST Optical Connectors Standard, SC optional
- Distances Up To 60km
- Hot Swappable Rack Cards
- SpectraSmart™ Option
- Supports Single Fiber Communications

DESCRIPTION

The SXA/SXB-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 one multimode or singlemode fiber. Auto-negotiation eliminates the need for any internal adjustments or settings. Distances of 60km 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 SXA/SXB-1R-x cards are available as rack mount cards that can be installed in Meridian's stand-alone or 19" chassis.

SPECIFICATIONS

Physical Ports

10/100 Base-T(X) Port in RJ45 Auto MDI/MDIX	1
ST, FC, SC	1

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)	1 - Green
Rx 10 Base-T(X)	1 - Green
Tx 100 Base-T(X)	1 - Green
Rx 100 Base-T(X)	1 - Green
Tx Activity	1 - Green
Rx Activity	1 - 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)

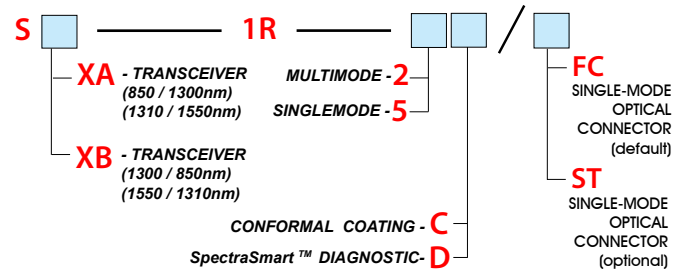
Environmental

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

Quality

MTBF	>170,000 hours @ Ground Fix 35°C per MIL217F
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Part Numbers:



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)
2	Multimode (FP Laser) 62.5 / 125	-6	-27	21	1300 / 850	ST	27	16
5	Singlemode (FP Laser) 9 / 125	-6	-27	21	1310 / 1550	ST, FC, SC	27	60

Ordering Information

Products	Part Number	Description
	SXA-1R-2ST	10/100 Media converter w/ST multimode optical port, Tx @ 1300nm, Rx @ 850nm
	SXB-1R-2ST	10/100 Media converter w/ST multimode optical port, Tx @ 850nm, Rx @ 1300nm
	SXA-1R-5FC	10/100 Media converter w/FC singlemode optical port, Tx @ 1310nm, Rx @ 1550nm
	SXB-1R-5FC	10/100 Media converter w/FC singlemode optical port, Tx @ 1550nm, Rx @ 1310nm
	SXA-1R-5ST	10/100 Media converter w/ST singlemode optical port, Tx @ 1310nm, Rx @ 1550nm
	SXB-1R-5ST	10/100 Media converter w/ST singlemode optical port, Tx @ 1550nm, Rx @ 1310nm
	SXA-1R-5SC	10/100 Media converter w/SC singlemode optical port, Tx @ 1310nm, Rx @ 1550nm
	SXB-1R-5SC	10/100 Media converter w/SC singlemode optical port, Tx @ 1550nm, Rx @ 1310nm

Packing List

Media Converter	1
Quick Installation Guide	1