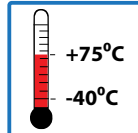


HARDENED 2-CHANNEL, 4 PORT MEDIA CONVERTER
2 PORTS 10/100TX (RJ45) + 2 PORTS FIXED OPTIC, 4 FIBER



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 50km
- Hot Swappable Rack Cards
- SpectraSmart™ Option

DESCRIPTION

The SX-2R-1/3 (1-slot rack-mount cards) are Media converters designed for bi-directional transmission 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 50km 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-1/3 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 On	1- Green
Tx Laser Current / Over Current	4 - Bi-color
Tx Link / Speed	4 - Bi-color
Tx Activity	4- Green
Rx Link / Speed	4 - Bi-color
Rx Activity	4- Green
Rx Optical Signal Present / Absent	4- Bi-color

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

Fiber Type/Size (um)	Optical Output (dBm)	Receiver Sensitivity (dBm)	Optical Budget (dB)	Wavelength (nm)	Optical Connector	Optical Dynamic Range (dB)
Multimode (FP Laser) 62.5 / 125	-5	-26	21	1300 / 850	ST	24
Singlemode (FP Laser) 9 / 125	-5	-26	21	1310 / 1550	ST, FC	24

Ordering Information

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

Packing List

Media Converter	1
Quick Installation Guide	1