MX-1RE-SFP | DigiNET

MEDIA CONVERTER

HARDENED 2 PORT MEDIA CONVERTER
1x10/100/1000T(X) RJ45 PORT AND 1x100/1000 SFP PORT

+75°C
-40°C
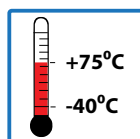
FEATURES

- 10/100/1000 Base-T Ethernet Auto-negotiation
- Full Duplex or Half-duplex Supported
- IEEE 802.3 Compliant
- Environmentally Hardened for Wide Temperature Applications
- LC, SC Optical Connectors - SFP dependent
- Distances Up To 50km
- Wide Optical Dynamic Range
- Supports one or two fibers with appropriate SFP modules
- 12-24VAC/VDC power operation
- Link Fault Pass-through Function
- SFP Speed Detect
- Jumbo Frames Support

DESCRIPTION

The MX-1RE-SFP (stand-alone module) is the Media converter designed for bi-directional transmission of 10Base-T Ethernet / 100Base-T Fast Ethernet /1000Base-T GigE Ethernet data over one multimode or singlemode fiber.

This product incorporates the industry standard Small Form Pluggable (SFP) optical modules. Various fiber types and wavelengths can be selected by simply plugging in the appropriate SFP module.

SFP Speed Detect feature will automatically configure optical port for 100Mb/s or 1000Mb/s operation, depending on what SFP module is used.

Auto-negotiation eliminates the need for any internal adjustments or settings. Distances of 50km can be obtained using single-mode fiber.

The MX-1RE-SFP is environmentally hardened and will operate over the standard NEMA TS-2 temperature range suitable for outdoor installations.

LEDs on the module indicate the status of power, link speed, activity, laser current and optical signal.
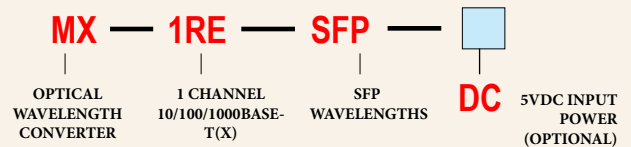
Standard shielded RJ-45 connectors are provided for CAT5 compliance.

MERIDIAN TECHNOLOGIES INC. • 700 ELMONT ROAD, ELMONT, NY 11003 • PHONE 516. 285.1000 • FAX 516. 285. 6300 • E-MAIL SALES@MERIDIAN-TECH.COM • WWW.MERIDIAN-TECH.COM

SPECIFICATIONS

Physical Ports

10/100 Base-T(X) Port in RJ45 Auto MDI/MDIX	1
LC, SC - SFP dependent	1

Technology

Ethernet Standards	IEEE 802.3 CSMA/CD IEEE 802.3i 10Base-T IEEE 802.3u 100Base-T IEEE 802.3ab 1000Base-T
Data Rate	10/100/1000 Mb/s
Fiber Data Rate	100/1000 Mb/s (SFP dependent)

LED indicators

Rx Optic	Green – Optical signal Present
Tx Optic	Green - Laser driver Normal
RX100	Green – when receiving 100 Base-T data
TX100	Green – when transmitting 100 Base-T data
RX10	Green – when receiving 10 Base-T data
TX10	Green – when transmitting 10 Base-T data
RX Data	Green flashing (normal) when data is being received into module
TX Data	Green flashing (normal) when data is being transmitted out of module

Power

Power	MX-1RE-SFP	MX-1RE-SFP-DC
Input Power	12~24 VAC/VDC power input at 2-pin terminal block (default)	5VDC power input at 2-pin terminal block (optional)
Power Consumption (Typ.)	4 Watts	3.5W
Power Supply ordering information	WP-24 Wall adapter (not included)	WP-5 Wall adapter (included)

Physical Characteristic

Dimension (W x D x H)	117(W) x 60 (D) x 25 (H) mm (3.5x 2.3 x1 inch)
Weight	213g (0.5lb)

Environmental

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

PART NUMBER DIAGRAM

MX — **1RE** — **SFP** — [ ] **DC**

OPTICAL WAVELENGTH CONVERTER | 1 CHANNEL 10/100/1000BASE-T(X) | SFP WAVELENGTHS | 5VDC INPUT POWER (OPTIONAL)

Optical Specifications

The SFP series products are available for both single-mode and multimode fiber applications and ether one or two fiber versions.

Recommended optical speed for this product is 1.25 Gb/s.

For more specifications on a SFP optical devices go to **SFP DATA SHEET** or go to:

WWW.MERIDIAN-TECH.COM -> PRODUCTS -> ACCESSORIES -> SFP OPTICAL DEVICES

Ordering Information

Part Number	Description	Power supply	Power supply description
MX-1RE-SFP	Hardened 2 Port Media Converter 1 Port 1x10/100/1000T(X) RJ45 port and 1x1000 SFP port with 12~24 VAC/VDC power input	**PSH24DC24 (not included)**	**24VDC @ 1 Amp (24 Watts)**
		WP-24 Wall adapter (not included)	**24VDC @ 1 Amp (24 Watts)**
MX-1RE-SFP-DC (optional)	Hardened 2 Port Media Converter 1 Port 1x10/100/1000T(X) RJ45 port and 1x1000 SFP port with 5VDC power input	**WP-5 Wall adapter (included)**	**5VDC @ 1 Amp (5 Watts)**

Packing List

Media converter	1
Quick Installation Guide	1