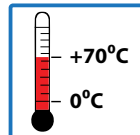**MEDIA CONVERTER**

## HARDENED 2 CHANNELS, 4 PORT MEDIA CONVERTER
## 2 PORT 10/100/1000TX (RJ45) + 2 PORT 1000 SFP

FC CE

+70°C
0°C

## FEATURES

- 10/100/1000 Base-T Ethernet  Auto-negotiation
- Full Duplex or Half-duplex Supported
- IEEE  802.3 Compliant
- NTCIP  Compatible
- Far End Fault Function
- Link Fault Pass-through Function
- FC,ST Optical Connectors Standard, SC Optional
- Hot Swappable Rack Cards
- SFP Speed Detect
- Auto MDI/MDIX
- Jumbo Frames Support

## DESCRIPTION

The  SX-2RE-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 optical fiber using an SFP optical module (not included). Since the data rate is auto-negotiated, no internal adjustments or setting are necessary. Distances of 60km can be obtained using the appropriate SFP module. The SX-2RE-SFP are environmentally hardened and will operate over the standard NEMA TS-2 temperature range - suitable for outdoor installations. LEDs on the 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-2RE-SFP incorporating industry standard Small Form Pluggable (SFP) optical modules for exceptional product versatility and performance.

The SX-2RE-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 | |
|---|---|
| 10/100/1000 Base-T(X) Port in RJ45 Auto MDI/MDIX | **2** |
| 1000Base-FX SFP port | **2** |

| Technology | |
|---|---|
| Ethernet Standards | IEEE 802.3 CSMA/CD<br>IEEE 802.3i 10Base-T<br>IEEE 802.3u 100Base-T<br>IEEE 802.3ab 1000Base-T |
| Data Rate | 10/100/1000 Mb/s |
| Bit Error Rate | Better than $10^{-9}$ |
| Fiber Data Rate | 1250 Mb/s |

| LED indicators | |
|---|---|
| Power On | 1 - Green (normal) - when power is applied to the module |
| RX Link/ACT | Study Green - link established on the fiber port<br>Blinks Green - activity is detected on the fiber port<br>OFF - fault is detected |
| TX Link/ACT | Study Green - link established on the cooper port<br>Blinks Green - activity is detected on the cooper port<br>OFF - fault is detected |

| Power | |
|---|---|
| Power Consumption (Typ.) | 4 Watts |
| Overload Current Protection | Present |

| Physical Characteristic | |
|---|---|
| Enclosure | Rack Card |

| Dimension (W x H x D) | 20 (W) x 127 (H) x 160 (D) mm<br>(0.8 x 5.0 x 6.3 inch) |
|---|---|
| Weight (g) | 450 g |

| Environmental | |
|---|---|
| Storage Temperature | -40° to 85°C (-40° to +185°F) |
| Operating Temperature | -0° to +70°C ( +32° to +158°F) |
| Operating Humidity | 5% to 95% Non-condensing |

| Regulatory approvals | |
|---|---|
| EMI | FCC Part 15, CISPR (EN55022) class A |
| EMS | EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8,<br>EN61000-4-11 |
| Shock | IEC60068-2-27 |
| Free Fall | IEC60068-2-32 |
| Vibration | IEC60068-2-6 |
| Safety | EN60950-1 |

| Warranty | **5 Years** |
|---|---|

| Ordering Information | |
|---|---|
| **Description** | **SX-2RE-SFP - 10/100/1000 Media converter, 2 Port 10/100/1000TX (RJ45) + 2 Port 1000 SFP** |
| **SFP Options** | **Refer to Optical SFP Data Sheet for complete part numbers and ordering information**      **or**<br><br>**go to: WWW.MERIDIAN-TECH.COM -> PRODUCTS -> ACCESSORIES -> SFP OPTICAL DEVICES**<br><br>**Recommended optical speed for this product is 1.25 Gb/s.** |

| Packing List | |
|---|---|
| **SX-2RE-SFP** | 1 |
| **Quick Installation Guide** | 1 |