

Hardened Mini Fast Ethernet Media Converter

10/100Base-TX to 100Base-FX



Features

- Unit and Port LEDs provide quick
 status
- Auto-Negotiation
- Fixed Full-Duplex on fiber
- Auto-MDI/MDIX
- Link Pass Through
- Active Link Pass Through on SFP version
- Automatic Link Restoration
- Far-End-Fault (FEF)
- DC and AC power inputs via terminal block
- If the voltage of your power source doesn't match the device input power, external power supplies are available
- Includes barrel connector pig-tail cable
- Overload Current Protection
- Reverse Polarity Protection
- Easily integrate fiber into industrial, hardened, or outdoor locations to reach devices at the edge of the network
- Small mechanical size allows use in enclosures with space constraints
- No configuration required
- Available with LC, ST or SC fiber interfaces and available for multimode or single mode fiber
- Multiple mounting options:
 - DIN Rail clip and velcro included
 - Wall mount bracket sold separately

The M/E-ISW Series is a hardened Fast Ethernet Mini media converter that provides a cost effective, plug-and-play media conversion between 10/100Base-TX ports and 100Base-FX ports for hardened or outdoor 10/100 environments. With its supported operating temperature range of -40°C to 75°C, the Mini offers a space saving alternative for converting copper to fiber in extreme environments.

Specifications

Standards	IEEE 802.3
Max Frame Size	2,046 bytes (for all excpet SFP version) 10,240 bytes (for SFP version)
Status LEDs	PWR (Power): (below RJ-45) FX-Link/Act (Fiber Link/Activity): (Upper Left on RJ-45) ON = Link; Flashing = Activity TX-Link/Act (Copper Link/Activity): (Upper Right on RJ-45) ON = Link; Flashing = Activity
Dimensions	Width: 1.8" [46 mm] Depth: 3.3" [85 mm] Height: 0.85" [22 mm]
Power Consumption	2.5 Watts
Power Input	2-pin Terminal Block Unit accepts 12-48 VDC and 24-36 VAC ± 10% Overload Current Protection Reverse Polarity Protection
Ingress Protection	IP20
Environment	Operating: -40°C to 75°C Storage: -40°C to 85°C Humidity: 5% to 95% (non-condensing) Altitude: 0 – 10,000 ft.
Weight	2 lbs. [0.90 kg]
MTBF	41,680 hours (MIL-HDBK-217F) 114,580 hours (Bellcore7 V5.0)
Certifications	FCC Class A, CISPR22/EN55022 Class A, EN55024, CE Mark
Warranty	Lifetime

Ordering Info

M/E-ISW-FX-02(SFP)

10/100Base-TX (RJ-45) [100 m/328 ft.] to 100Base-FX Open SFP Slot **Media Converters**

M/E-ISW-FX-02

10/100Base-TX (RJ-45) [100 m/328 ft.] to 100Base-FX 1300nm multimode (ST) [2 km/1.2 mi.] Link Budget: 14.0 dB

M/E-ISW-FX-02(SC)

10/100Base-TX (RJ-45) [100 m/328 ft.] to 100Base-FX 1300nm multimode (SC) [2 km/1.2 mi.] Link Budget: 14.0 dB

M/E-ISW-FX-02(MMLC)

10/100Base-TX (RJ-45) [100 m/328 ft.] to 100Base-FX 1300nm multimode (LC) [2 km/1.2 mi.] Link Budget: 11.0 dB

M/E-ISW-FX-02(SM)

10/100Base-TX (RJ-45) [100 m/328 ft.] to 100Base-FX 1310nm single mode (SC) [20 km/12.4 mi.] Link Budget: 19.0 dB

Optional Accessories (sold separately)

SFP Modules

Supports Hardened Grade SFP Modules

AC Power Supplies (sold separately)

SPS-UA12DHT

100-240 VAC input (0°C to +70°C Operating temperature)

25165

Universal AC/DC Input DIN Rail Mountable +12 VDC Power Supply

Mounting Options (sold separately)

WMBM

Wall Mount Bracket for Mini Converters