

# M/E-ISW Series

## Hardened Mini Fast Ethernet Media Converter

### 10/100Base-TX to 100Base-FX



M/E-ISW-FX-01

The M/E-ISW Series is an 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.

Media Converters

### Features

- Unit and Port LEDs provide quick status
- Auto-Negotiation
- Fixed Full-Duplex on fiber
- Auto-MDI/MDIX
- Link Pass Through
- Automatic Link Restoration
- Far-End-Fault (FEF)
- DC and AC powered models
- Overload Current Protection
- Reverse Polarity Protection
- Easily integrate fiber into industrial, hardened, or outdoor locations to reach devices at the edge of the network
- Tiny mechanical size allows use in small enclosures
- No configuration required
- Available with LC, ST or SC fiber interfaces and is available for multimode or single mode fiber; Single fiber options are also available

### Specifications

Standards	IEEE 802.3
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 Supply	12-48 VDC AC version also supports 22-36 VAC ± 10% Overload Current Protection Reverse Polarity Protection
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]
Compliance	FCC Class A, CISPR22/EN55022 Class A, EN55024, CE Mark
Warranty	Lifetime

### Ordering Info

AC = AC powered option available  
M/E-ISW-FX-01 or M/E-ISW-FX-01AC

**M/E-ISW-FX-01**  
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-01(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-01(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-01(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

**M/E-ISW-FX-01(SMLC)**  
10/100Base-TX (RJ-45) [100 m/328 ft.]  
to 100Base-FX 1310nm single mode (LC)  
[20 km/12.4 mi.] Link Budget: 19.0 dB

**M/E-ISW-FX-01(100)**  
10/100Base-TX (RJ-45) [100 m/328 ft.]  
to 100Base-FX 1310nm TX/1550nm RX single  
fiber single mode (SC) [20 km/12.4 mi.]  
Link Budget: 18.0 dB

**M/E-ISW-FX-01(101)**  
10/100Base-TX (RJ-45) [100 m/328 ft.]  
to 100Base-FX 1550nm TX/1310nm RX single  
fiber single mode (SC) [20 km/12.4 mi.]  
Link Budget: 18.0 dB

**M/E-ISW-FX-01AC**  
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-01AC(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-01AC(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-01AC(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

**M/E-ISW-FX-01AC(SMLC)**  
10/100Base-TX (RJ-45) [100 m/328 ft.]  
to 100Base-FX 1550nm single mode (LC)  
[20 km/12.4 mi.] Link Budget: 19.0 dB

Optional Accessories (sold separately)

AC Power Supplies

**SPS-UA12DHT**  
100-240 VAC input  
(0°C to +70°C operating temperature)

**25083**  
Universal AC/DC Input DIN Rail Mountable  
+12 VDC Power Supply

### Mounting Options

**WMBM**  
Wall Mount Bracket for Mini Converters