

industrial mini stand-alone media converter

M/E-ISW-FX-01(xx) & M/E-ISW-FX-01AC(xx)

Industrial Mini 10/100 Bridging Media Converter



Easily Integrate Fiber

into industrial, hardened or outdoor locations to reach devices at the edge of the network

Tiny Mechanical Size

Allows media conversion within industrial enclosures, where space is at a premium.

No Configuration Required

These media converters are plug-and-play for transparent operation within your existing network.

The Industrial Mini is available with LC, ST or SC fiber interfaces and is available for multimode or single mode fiber. Single fiber options are also available .

Features

- ▶ Unit and Port LEDs provide quick status
- ▶ Auto-Negotiation
- ▶ Fixed Full-Duplex on fiber
- ▶ AutoCross™ on copper port
- ▶ Link Pass Through
- ▶ Automatic Link Restoration
- ▶ Far-End-Fault
- ▶ DC and AC powered models
- ▶ Overload Current Protection
- ▶ Reverse Polarity Protection

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

RMBM

Rack Mount Bracket for Mini Media
Converters in the RMS19-SA4-01
and/or E-MCR-05

Industrial Mini Media Converters provide a cost-effective method for integrating fiber optic cabling into industrial or outdoor 10/100 UTP Ethernet networks. Featuring wide operating temperature range, low-voltage power, multiple mounting methods and Transition Networks' Lifetime Warranty these problem solvers are guaranteed to be trouble-free in harsh outdoor or industrial applications.



The Industrial Mini is ideal for extending Ethernet over Fiber to outdoor security cameras.

Specifications

Standards	IEEE Std. 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 Sources	12-48 VDC AC version also supports 22-36 VAC ± 10% Overload Current Protection Reverse Polarity Protection
Operating Temp	-40°C to 75°C
Storage Temp	-40°C to 85°C
Humidity	5% – 95% humidity non-condensing
Altitude	0 – 10,000 ft. altitude
Shipping Weight	2 lbs. [0.90 kg]
Regulatory 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-01-AC

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

10/100BASE-TX (RJ-45) [100 m/328 ft.]
to 100BASE-FX 1310 nm multimode (ST)
[2 km/1.2 mi.] Link Budget: 12.0 dB

M/E-ISW-FX-01 (MMLC) M/E-ISW-FX-01AC (MMLC)

10/100BASE-TX (RJ-45) [100 m/328 ft.]
to 100BASE-FX 1310 nm multimode (LC)
[2 km/1.2 mi.] Link Budget: 11.0 dB

M/E-ISW-FX-01 (SC) M/E-ISW-FX-01AC (SC)

10/100BASE-TX (RJ-45) [100 m/328 ft.]
to 100BASE-FX 1310 nm multimode (SC)
[2 km/1.2 mi.] Link Budget: 12.0 dB

M/E-ISW-FX-01 (SM) M/E-ISW-FX-01AC (SM)

10/100BASE-TX (RJ-45) [100 m/328 ft.]
to 100BASE-FX 1310 nm SM (SC)
[20 km/12.4 mi.] Link Budget: 16.0 dB

M/E-ISW-FX-01 (SMLC) M/E-ISW-FX-01AC (SMLC)

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

M/E-ISW-FX-01 (LH) M/E-ISW-FX-01AC (LH)

10/100BASE-TX (RJ-45) [100 m/328 ft.]
to 100BASE-FX 1310 nm single mode (SC)
[40 km/24.9 mi.] Link Budget: 30.0 dB

Single Fiber Products

Recommended use in pairs

M/E-ISW-FX-01 (100) M/E-ISW-FX-01AC (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) M/E-ISW-FX-01AC (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-01 (102) M/E-ISW-FX-01AC (102)

10/100BASE-TX (RJ-45) [100 m/328 ft.]
to 100BASE-FX 1310nm TX/1550nm RX
single fiber single mode (SC)
[40 km/24.9 mi.] Link Budget: 26.0 dB

M/E-ISW-FX-01 (103) M/E-ISW-FX-01AC (103)

10/100BASE-TX (RJ-45) [100 m/328 ft.]
to 100BASE-FX 1550nm TX/1310nm RX
single fiber single mode (SC)
[40 km/24.9 mi.] Link Budget: 26.0 dB