

### Hardened Mini Gigabit Ethernet Media Converter 10/100/1000Base-T to 1000Base-SX/LX

The M/GE-ISW Series is an hardened Gigabit Ethernet Mini media converter that provides cost effective media conversion between 10/100/1000Base-T ports and 1000Base-SX/LX ports for hardened or outdoor 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.



M/GE-ISW-SFP-01

### Key Features

- Unit and Port LEDs allow for quick status information
- Auto-Negotiation
- Fixed Full-Duplex on Fiber
- Auto-MDI/MDIX on copper port
- Active Link Pass Through
- Jumbo Frame (up to 10240Bytes)
- Supports DC and AC Input Power 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
- Multiple mounting options
  - DIN Rail clip and Velcro included
  - Wall mount bracket sold separately
- Overload Current Protection
- Reverse Polarity Protection

### Specifications

Standards	IEEE 802.3 IEEE 802.3u IEEE 802.3ab IEEE 802.3z IEEE 802.3x
Max Frame Size	10240 bytes
Status LEDs	PWR (Power): (below RJ-45) ON = Lit for normal operation 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	1.2 Watts
Power Input	2-pin terminal block Unit accepts 12 - 48 VDC or 24 - 36VAC (External power supplies sold separately)
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	0.40 lbs. [0.18 kg]
MTBF	Greater than 41,680 hours (MIL-HDBK-217F) Greater than 114,580 hours (Bellcore7 V5.0)
Certifications	FCC Class A, CISPR22/EN55022 Class A, EN55034, CE Mark
Warranty	Lifetime

### Ordering Information

**M/GE-ISW-SX-01**  
10/100/1000Base-T (RJ-45) to 1000Base-SX, SC, multimode, [62.5/125 um: 220 m/722 ft.] [50/125 um: 550 m/1804 ft.] Link Budget: 7.5 dB

**M/GE-ISW-LC-01**  
10/100/1000Base-T (RJ-45) to 1000Base-SX, LC, multimode, [62.5/125 um: 220 m/722 ft.] [50/125 um: 550 m/1804 ft.] Link Budget: 8.0 dB

**M/GE-ISW-LX-01**  
10/100/1000Base-T (RJ-45) to 1000Base-LX, SC, single mode, [10 km/6.2 mi.] Link Budget: 10.5 dB

**M/GE-ISW-SFP-01**  
10/100/1000Base-T (RJ-45) to 100/1000Base-X Open SFP Slot

### Optional Accessories (sold separately)

#### SFP Modules

#### Power Supplies (sold separately)

**SPS-UA12DHT**  
12 VDC, 18W, External AC/DC Desktop Power Supply

**25165**  
Universal AC/DC Input DIN Rail Mountable +12 VDC Power Supply

#### Mounting Options (sold separately)

**WMBM**  
Wall Mount Bracket Mini

**RMBM**  
Rack Mount Bracket for Mini Media Converters in the RMS19-SA4-02