

M/GE-xSW-SFP-01-xx-UxX Series

Mini Gigabit Ethernet Unidirectional Media Converter

10/100/1000Base-T Port to 100/1000Base-X Port



Media Converters

Transmit & Receive Must Be Used As a Pair

Unidirectional media converters combine this one-way communications with the benefits of a copper to fiber media converter. Media converters are a cost-effective, plug-and-play device that allows fiber optic cabling to be connected to copper-based networking equipment. The deployment of fiber adds a layer of security to networks as it is difficult to tap into fiber and go undetected. If threats are attacking a network, the fiber links go down and network administrators are made aware of the problem, providing them the opportunity to address a potential breach of security.

Adding unidirectional technology to a media converter creates a physically secure one-way communication channel over fiber between a secure network and an unsecure network. These devices can be used to allow data from a classified, high-security area to be transmitted to a low-security area, while preventing unsecure data from re-entering the classified network. An alternate application allows a secure network to be updated with data from an external source while ensuring its critical data is unable to leave the classified area.

Features

- Unidirectional data transmissions over fiber to, or from, secure networks
- Simplex communications only requires one strand of fiber cable
- Applications require a transmit-only converter to be paired with a receive-only converter
- Converters support dual speed 100/1000Mbps SFP modules offering great flexibility to meet network requirements
- Converters use duplex SFP modules but the transmitting converter only uses the TX port on the SFP, while the RX port is deactivated. Likewise the receiving converter only uses the RX port, while the TX port is deactivated
- Unit and port LEDs allow for quick status information
- Auto-Negotiation on the 10/100/1000 copper port
- Auto-MDI/MDIX configuration
- Jumbo Frame Support

Specifications

| | |
|-------------------|---|
| Standards | IEEE 802.3 IEEE 802.3z IEEE 802.3u IEEE 802.3ab IEEE 802.3af (for PD Versions Only) |
| Status LEDs | Pwr (Power): On = Power FX-Link/Act (Fiber Link / Activity): On = Link, Flashing = Activity TX-Link/Act (Copper Link / Activity): On = Link, Flashing = Activity |
| Dimensions | Width: 1.8" [46 mm] Depth: 3.3" [85 mm] Height: 0.85" [22 mm] |
| Power Consumption | 1.8 watts without the SFP module |
| Power Supply | External AC/DC required, 12 VDC, 0.5A |
| Power Input | 4.5VDC to 14VDC (M/GE-PSW-SFP-01-UxX) 12 – 48 VDC or 24 – 36VAC (M/GE-ISW-SFP-01-UxX) IEEE 802.3af supplied through TP RJ-45 (M/GE-ISW-SFP-01-PD-UxX) |
| Environment | M/GE-PSW-SFP-01-UxX: Operating: 0°C to 50°C Humidity: 5% to 95% (non-condensing) Storage: -15°C to 65°C Altitude: 0 to 10,000 ft. M/GE-ISW-SFP-01-xx-UxX: Operating: -40°C to 75°C Humidity: 5% to 95% (non-condensing) Storage: -40°C to 85°C Altitude: 0 to 10,000 ft. |
| Weight | 2 lbs. [0.9 kg] |
| Compliance | Safety: Wall Mount Power Supply, UL Listed, cUL Listed (Canada); FCC Class A, CISPR22 / EN55022 Class A, EN55034, CE Mark |
| Warranty | Lifetime |

Power Supply Included

To order the corresponding country specific power supply, add the extension from the list below to the end of the SKU; Ex: For M/GE-PSW-SFP-01-UTX-NA or M/GE-PSW-SFP-01-URX-NA Only

-NA = Country Code

-NA = North America, -LA = Latin America, -EU = Europe, -UK = United Kingdom
-SA = South Africa, -JP = Japan, -OZ = Australia, -BR = Brazil



Ordering Information

Enterprise Grade Converters (0°C to 50°C)

M/GE-PSW-SFP-01-UTX

10/100/1000Base-T (RJ-45) [100 m/328 ft.]
to Unidirectional 100/1000Base-X SFP Slot
(empty) Transmitting Converter

M/GE-PSW-SFP-01-URX

10/100/1000Base-T (RJ-45) [100 m/328 ft.]
to Unidirectional 100/1000Base-X SFP Slot
(empty) Receiving Converter

Hardened Grade Converters (-40°C to 75°C)

M/GE-ISW-SFP-01-UTX

Hardened Mini 10/100/1000Base-T (RJ-45)
to Unidirectional 100/1000Base-X Open SFP
Slot Transmitting Converter

M/GE-ISW-SFP-01-URX

Hardened Mini 10/100/1000Base-T (RJ-45)
to Unidirectional 100/1000Base-X Open SFP
Slot Receiving Converter

PoE-Powered Hardened Grade Converters (-40°C to 75°C)

M/GE-ISW-SFP-01-PD-UTX

PoE Powered Hardened Mini
10/100/1000Base-T (RJ-45)
to Unidirectional 100/1000Base-X Open SFP
Slot Transmitting Converter

M/GE-ISW-SFP-01-PD-URX

PoE Powered Hardened Mini
10/100/1000Base-T (RJ-45)
to Unidirectional 100/1000Base-X Open SFP
Slot Receiving Converter

Optional Accessories (sold separately)

SFP Modules

Power Supply

SPS-2460-SA (For Enterprise Converters)
24VDC to 60VDC input Stand-alone
Power Supply

SPS-UA12DHT (For Hardened Non-PD Converters)
12 VDC, 18W, External AC/DC Desktop Power
Supply

25083 (For Hardened Non-PD Converters)
10.8 – 13.2 VDC, 24W, External AC/DC DIN Rail
Mount Power Supply

Mounting Options

WMBM (For Enterprise Converters)
Wall Mount Bracket for Mini

M-MCR-01 (For Enterprise Converters)
18-Slot Powered Mini Chassis

DRBM (For Enterprise Converters)
DIN Rail Mount Bracket for Mini

RMBM

Rack Mount Bracket for Mini, use with
RMS19-SA4-02 and/or E-MCR-05