

Mini Gigabit Ethernet Unidirectional Media Converter

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



Unidirectional communication is often used to safeguard information in secure environments such as government agencies and military networks. A Unidirectional device, sometimes referred to as a unidirectional security gateway or a data diode, provides a connection between two or more networks with different security classifications and helps to protect assets by ensuring information is directed only to, or from, the appropriate network as designated by the directional

Transmit & Receive Must Be Used As a Pair device.

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 transmitonly 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

Specifications			M/GE-IS	
Standards	IEEE 802.3 IEEE 802.3u IEEE 802.3af (for PD Vers	IEEE 802.3z IEEE 802.3ab ions Only)	PoE F 10/10 to Ur Slot F	
Status LEDs	Pwr (Power): On = Power FX-Link/Act (Fiber Link / Activity): On = Link, Flashing = Activity		Option	
	TX-Link/Act (Copper Link / Activity): On = Link, Flashing = Activity		SFP Mo	
Dimensions	Width: 1.8" [46 mm] Depth: 3.3" [85 mm] Height: 0.85" [22 mm]		Power 3	
Power Consumption	1.8 watts without the SFF	1.8 watts without the SFP module		
Power Supply	External AC/DC required, 12 VDC, 0.5A 4.5VDC to 14VDC via barrel connector (-PSW) 12 – 48 VDC or 24 – 36VAC via 2-pin terminal block (-ISW) IEEE 802.3af via TP RJ-45 (-PD)		SPS-UA1 12 VE Powe	
Power Input				
			25165 (F Unive +12 V	
Environment	M/GE-PSW-SFP-01-UxX: Operating: 0°C to 50°C			
	Humidity: 5% to 95% (non-condensing)		Mount	
	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		WMBM Wall	
			M-MCR 18-SI	
	Altitude: 0 to 10,000 ft.		DRBM (I	
Weight	2 lbs. [0.9 kg]		DIN F	
MTBF	Greater than 41,680 hours (MIL-HDBK-217F) Greater than 114,580 hours (Bellcore7 V5.0)		RMBM Rack RMS1	
Certifications	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 p the list below to the end of the SKU; Ex: For N PSW-SFP-01-URX-NA Only -NA = Country Code -NA = North America.		

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

M/GE-PSW-SEP-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

MA/CE ISW-SFP-01-PD-URX

Powered Hardened Mini .00/1000Base-T (RJ-45) Inidirectional 100/1000Base-X Open SFP **Receiving Converter**

nal Accessories (sold separately)

dules

Supply (sold separately)

60-SA (For Enterprise Converters) /DC to 60VDC input Stand-alone er Supply

12DHT (For Hardened Non-PD Converters) DC. 18W. External AC/DC Desktop er Supply

(For Hardened Non-PD Converters) versal AC/DC Input DIN Rail Mountable VDC Power Supply

ting Options (sold separately)

A (For Enterprise Converters) Mount Bracket for Mini

R-01 (For Enterprise Converters) lot Powered Mini Chassis

(For Enterprise Converters) Rail Mount Bracket for Mini

Mount Bracket for Mini, use with 19-SA4-02 and/or E-MCR-05

power supply, add the extension from M/GE-PSW-SEP-01-UTX-NA or M/GE-

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

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