MINI FAST / GIGABIT ETHERNET POE+ MEDIA CONVERTER

10/100/1000Base-T PoE+ RJ-45 Port + 100/1000Base-X SFP Slot

This Gigabit Ethernet Stand-alone Mini Media Converter provides cost-effective media conversion between 10/100/1000Base-T ports and 100/1000Base-SX/LX ports. With its fixed configuration, deployments are just plug-and-play, and its small size makes it ideal for locations where space is limited. Operating at Layer 2, the data link layer, this converter not only converts copper to fiber, but it also provides rate conversion allowing legacy 10/100 copper devices to connect to 1000Base-SX/LX fiber.
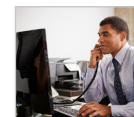
In addition to providing copper to fiber conversion, this converter is also classified as Power Sourcing Equipment (PSE), meaning it combines data received over the fiber optic link with 56VDC input power to provide power and data to a Powered Device (PD) over the twisted Pair cable, while complying with the IEEE 802.3af and IEEE 802.3at PoE+ standards. This allows the user to take advantage of the benefits of fiber cabling, along with the benefits of Power-over-Ethernet (PoE) technology.

Supporting PoE allows this converter to send data and power to devices like VoIP Phones, Security Cameras, and Wireless Access Points, especially if they need to be located in remote areas of your network that can only be reached with fiber optic cabling.

Applications:

- VoIP Phones
- Security Cameras
- Wireless Access Points
- Space Constrained Environments such as within camera housings

Markets:

Fiber to the Desk

Security & Surveillance

Government

LANTRONIX

Specifications

Standards
- IEEE 802.3-2012
- IEEE 802.3z
- IEEE 802.3af/at PSE-PoE
- IEEE 802.3x
- IEEE 802.3ab
- IEEE 802.3az

Switch Features
- Max Packet Size: 10,000 bytes
- Max MAC Addresses: 8k
- 1Mbit shared buffer memory

Status LEDs
- PWR   On (green) = Power to converter
- PoE   Off = No PD detected
              On (yellow) = AF mode
              On (green) = AT mode
              Blinking = overload or short circut
- Top LED   TP Status
- Bottom LED   Fiber Status

Dimensions
- Width: 1.8" [46 mm]
- Height: 0.85" [22 mm]
- Depth: 3.3" [85 mm]

Power Consumption
- 34W with full IEEE 802.3at 30 Watt load

Power Source
- External AC/DC 56VDC, 40W power adapter (65W for -JP power supply bundle)

Power-over-Ethernet
- Max PoE Budget: 30 Watts

Environment
- Operating: 0°C to +40°C (with included power supply)
- Storage: -40°C to +85°C
- Humidity: 5% to 95% (non-condensing)
- Altitude: 0 − 10,000 ft.

Weight
- 2 lbs. [0.9 kg]

MTBF
- M/GE-PSW-PSE-01 only: 2,941,024 hours (Telcordia SR-332)
- Included Power Supply only
  25173: 159,357 hours (MIL-DHBK-217F)
  25188 (-JP Only): 300,000 hours (Telcordia SR-332)

Certifications
- EN55032-2012 Class A, IEC 61850-3:2002,
- EN55024-2010, CE Mark, Power Supply is UL listed

Warranty
- Lifetime

Features

- Wall mount, DIN Rail, or table top installation

- External AC/DC power supply included with country specific power cord

- 2-port 10/100/1000 copper to fiber media conversion with IEEE 802.3at PoE+ on the copper port

- Supports full 30 Watts of power to the twisted pair port

- SFP slots can support any 100Base-FX or 1000Base-X fiber SFP module

- Supports Auto-Negotiation

- Supports Auto-MDI/MDIX

- Active Link Pass Through (ALPT)
  - Automatically detect the loss of Receive (Rx) signals on either fiber or copper port and propagate the failure to the end devices

- Auto Power Reset
  - Re-set the power to the end PD device during a Link Pass Through (LPT) event, ensuring it is ready to go when the fault is corrected

- Jumbo frame support

- 8K MAC address table

- LEDs indicators for power status, Link/Activity per port, & PoE status/classification

- Plug-and-Play fixed configuration, no dip-switches

- Over-current protection

- Under-current protection

- Fault protection input

Ordering Information

Part Number	Description
M/GE-PSW-PSE-01	10/100/1000Base-T PoE+ RJ-45 port [100 m/ 328 ft.] to 100/1000Base-X SFP slot (empty)

Optional Accessories	Description
SFP Modules	Supports 100 or 1000Base-X Fiber SFPs only Check out our SFPs on Lantronix.com

Mounting Options	Description
WMBM	Wall Mount Bracket for Mini
DRBM	DIN Rail Mount Bracket for Mini
RMBM	Rack Mount Bracket for Mini, use with RMS19-SA4-02
Note: Cannot be used with M-MCR-01 or E-MCR-05 Racks due to power limitations	

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: M/GE-PSW-PSE-01-NA

-NA = Country Code

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

Contact Information

Americas
800.422.7055
americas_sales@lantronix.com
www.lantronix.com
NASDAQ: LTRX

Europe
+31 (0) 76.52.3.6.74 4
eu_sales@lantronix.com

Asia/Pacific
+852 3955.0218
asiapacific_sales@lantronix.com

China: +86.21.6237.8868

India: +91 994-551-2488

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