# PoE Switching Media Converter 10/100/1000 Mbps

## PoE & PoE+ Giga-MiniMc LFPT

### PRODUCT FEATURES

- Rugged stand-alone metal enclosure with compact external power supply
- Supports Jumbo Frames (up to 10240 bytes)
- Multiple mounting options (Desktop, DIN Rail or Wall-mount)
- Features configurable PoE Reset on Fiber LOS
- Supports IEEE 802.3af PoE (15.4W) and IEEE 802.3at PoE+ (25.5W) standards
- Link Fault Pass Through

The PoE and PoE+Giga-MiniMc are low-cost, compact, multi-port media converters that support both PoE and PoE+ standards. Utilizing their flexibility and compact size, interior private network applications can further benefit from the ever-expanding versatility of the MiniMc product line.

Featuring 2-10/100/1000Base-T copper UTP ports and one SFP uplink port that supports either a copper or fiber SFP, the PoE and PoE+ Giga-MiniMc are Power Source Equipment (PSE) devices. The PoE+ Giga-MiniMc is capable of powering up to two Powered Devices (PD) over standard CAT5 cable or better, whereas the PoE Giga-MiniMc can power one PD device via a copper port while delivering data over the other copper port. The PoE+ Giga-MiniMc is able to power high-power devices such as touch panels, PTZ (pan-tilt-zoom) IP surveillance cameras, and RFID readers that require more power than the typical 15.4 W provided by standard PSE devices such as the PoE Giga-MiniMc.

The PoE and PoE+ Giga-MiniMc models are fully compatible with the IEEE 802.3af/at standards to ensure a seamless integration into your network. Enhanced features include store-and-forward, Autocross, an LFPT DIP Switch, and PoE reset on fiber loss of signal. PoE reset is an advanced function that, when enabled, will force the PSE output power to reset when LINK state is lost on the SFP port.

### ACCESSORIES

**806-39105** - DIN Rail Clip

**806-39800** - PoE Power Adapter for PoE Giga-MiniMc

**895-39229** - Wall Mount Bracket

**806-39900** - PoE+ Power Adapter for PoE+ Giga-MiniMc

**806-39910** - PoE+ Isolated Power Adapter

### ORDERING INFORMATION

| MODEL NUMBER | FIBER | FIBER PORTS | RANGE | ETHERNET PORTS | ETHERNET CONNECTOR |
|---|---|---|---|---|---|
| **PoE Giga-MiniMc** | | | | | |
| 857-11811 | SFP * | 1 | Various | 2 | RJ45 |
| 857-11812 | MM850-SC | 1 | 220/550 m | 2 | RJ45 |
| 857-11813 | MM1300-SC | 1 | 2 km | 2 | RJ45 |
| 857-11814 | SM1310-SC | 1 | 15 km | 2 | RJ45 |
| 857-11815 | SM1310/PLUS-SC | 1 | 40 km | 2 | RJ45 |
| 857-11816 | SM1550/LONG-SC | 1 | 80 km | 2 | RJ45 |
| 857-11817 | SM1550/XLONG-SC | 1 | 100 km | 2 | RJ45 |
| **SINGLE STRAND FIBER SSLX OR SSBX **** | | | | | |
| 857-11820 | SM1310-SC | 1 | 15 km | 2 | RJ45 |
| 857-11821 | SM1550-SC | 1 | 15 km | 2 | RJ45 |
| 857-11822 | SM1310-SC | 1 | 10 km | 2 | RJ45 |
| 857-11823 | SM1490-SC | 1 | 10 km | 2 | RJ45 |
| 857-11824 | SM1310/PLUS-SC | 1 | 40 km | 2 | RJ45 |
| 857-11825 | SM1550/PLUS-SC | 1 | 40 km | 2 | RJ45 |
| 857-11826 | SM1310/PLUS-SC | 1 | 30 km | 2 | RJ45 |
| 857-11827 | SM1490/PLUS-SC | 1 | 30 km | 2 | RJ45 |
| 857-11828 | SM1490/LONG-SC | 1 | 70 km | 2 | RJ45 |
| 857-11829 | SM1550/LONG-SC | 1 | 70 km | 2 | RJ45 |

### ORDERING INFORMATION

| MODEL NUMBER | FIBER | FIBER PORTS | RANGE | ETHERNET PORTS | ETHERNET CONNECTOR |
|---|---|---|---|---|---|
| **PoE+ Giga-MiniMc** | | | | | |
| 857-11911 | SFP | 1 | Various | 2 | RJ45 |
| 857-11912 | MM850-SC | 1 | 220/550 m | 2 | RJ45 |
| 857-11913 | MM1300-SC | 1 | 2 km | 2 | RJ45 |
| 857-11914 | SM1310-SC | 1 | 15 km | 2 | RJ45 |
| 857-11915 | SM1310/PLUS-SC | 1 | 40 km | 2 | RJ45 |
| 857-11916 | SM1550/LONG-SC | 1 | 80 km | 2 | RJ45 |
| 857-11917 | SM1550/XLONG-SC | 1 | 100 km | 2 | RJ45 |
| **SINGLE STRAND FIBER SSLX OR SSBX **** | | | | | |
| 857-11920 | SM1310-SC | 1 | 15 km | 2 | RJ45 |
| 857-11921 | SM1550-SC | 1 | 15 km | 2 | RJ45 |
| 857-11922 | SM1310-SC | 1 | 10 km | 2 | RJ45 |
| 857-11923 | SM1490-SC | 1 | 10 km | 2 | RJ45 |
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| 857-11925 | SM1550/PLUS-SC | 1 | 40 km | 2 | RJ45 |
| 857-11926 | SM1310/PLUS-SC | 1 | 30 km | 2 | RJ45 |
| 857-11927 | SM1490/PLUS-SC | 1 | 30 km | 2 | RJ45 |
| 857-11928 | SM1490/LONG-SC | 1 | 70 km | 2 | RJ45 |
| 857-11929 | SM1550/LONG-SC | 1 | 70 km | 2 | RJ45 |

\* SFP Fiber sold separately

\*\* These products have single-strand fiber technology. Deploy in pairs or connect another compatible B&B IMC LLC single-strand fiber product.

**PoE and PoE+ Giga-MiniMc also available in CWDM Fiber. Call for details.**

## SPECIFICATIONS

### TECHNICAL

IEEE 802.3 10Base-T twisted pair

IEEE 802.3u 100Base-TX twisted pair

IEEE 802.3ab 1000Base-T twisted pair

IEEE 802.3z 1000Base-LX or SX fiber

IEEE 802.3af Power over Ethernet

IEEE 802.3at Power over Ethernet Plus

IEEE 802.3u Auto-Negotiation

RFC-2474

RFC-2475 DiffServ QoS

Extreme temperature range (DC configuration)

Plug-and-play operation

Accepts RJ45, SC and SFP connectors

50/125µm or 62.5/125µm multi-mode fiber

9/125µm single-mode fiber

Single-strand fiber and CWDM models

Country-specific, high-reliability power adapter

FX and TX Auto Negotiation

AutoCross for MDI/MDIX

MTU: Supports Jumbo Frames up to 10240 bytes

Supports DIN Rail mounting (DIN clips sold separately)

Link Fault Pass Through DIP Switch

### MECHANICAL

| | |
|---|---|
| Dimensions | 0.80" H x 3.645" W x 3.82" D (2.032 cm x 9.258 cm x 9.7028 cm) |
| Shipping Weight | 1.0 lbs (0.45 kg) |

### AC ADAPTER

| | |
|---|---|
| PoE Giga-MiniMc | Input: 100 to 240 ±10% VAC, 50/60H, 0.7A * Output: 48 VDC, 0.62A |
| PoE+ Giga-MiniMc | Input: 100 to 240 ±10% VAC, 50/60H, 2A * Output: 52 VDC, 2.31A |
| * Maximum input power in Watts is calculated by multiplying the input amps by the lowest input voltage. | |
| DC Input Voltage: | |
| PoE Giga-MiniMc | 45 to 57 VDC on DC terminal block 48 VDC on DC jack |
| PoE+ Giga-MiniMc | 51 to 57 VDC on DC terminal block 51 to 57 VDC on DC jack |

### ENVIRONMENTAL

| | |
|---|---|
| Operating Temperature DC Terminal Block: | +32° F to +158° F (0° C to +70° C) |
| Operating Temperature AC Adapter: | +32° F to +122° F (0° C to +50° C) |
| Storage Temperature: | -31° F to +167° F (-35° C to +75° C); |
| Operating Humidity | 5% to 95% (non-condensing) |

### REGULATORY APPROVALS

FCC Class A

UL/cUL, CSA, CE

## MECHANICAL DIAGRAM

(dimensions in inches & millimeters)

1.35 [ 34.3 ]

.35 [ 8.9 ]

DIN RAIL CLIP & WALL MT BRKT MOUNTING 4X, 2-56 THDS MAX SCREW LENGTH, .09 IN.

.53 [ 13.3 ]

.86 [ 21.8 ]

2X .50 [ 12.7 ]

3.86 [ 98 ]

1.82 [ 46.3 ]

3.66 [ 93 ]

DIN RAIL CLIP & WALL MT BRKT MOUNTING 4X, 2-56 THDS MAX SCREW LENGTH, .09 IN.

.35 [ 8.9 ]

2X .50 [ 12.7 ]

1.35 [ 34.3 ]

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