

PoE Switching Media Converter 10/100/1000 Mbps

PoE & PoE+ Giga-MiniMc/LFPT

B+B SMARTWORX

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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 (LFPT)

PoE and PoE+ Giga-MiniMc/LFPT series are low-cost, compact, multiport media converters that support both PoE and PoE+ standards. Unmanaged, plug-and-play media converters with PoE capability make this product series a cost-effective solution for Ethernet networks.

Featuring two 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/LFPT can power one PD device via a copper port while delivering data over the other copper port.

The PoE-Giga-MiniMc/LFPT series 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/LFPT models meet IEEE 802.3af/at standards; enhanced features include store-and-forward, Autocross, an LFPT DIP switch, and PoE reset on fiber loss of signal.

ORDERING INFORMATION

MODEL NUMBER	FIBER	FIBER PORTS	RANGE	ETHERNET PORTS	ETHERNET CONNECTOR
PoE Giga-MiniMc / LFPT					
BB-857-11811	SFP *	1	Various	2	RJ45
PoE+ Giga-MiniMc / LFPT					
BB-857-11911	SFP *	1	Various	2	RJ45
BB-857-11912	MM850-SC	1	220/550 m	2	RJ45
BB-857-11913	MM1300-SC	1	2 km	2	RJ45
BB-857-11914	SM1310-SC	1	15 km	2	RJ45
BB-857-11915	SM1310/PLUS-SC	1	40 km	2	RJ45

* SFP Fiber sold separately.

ACCESSORIES – sold separately

BB-806-39105 - DIN Rail Clip

BB-895-39229 - Wall Mount Bracket

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

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

All product specifications are subject to change without notice.

PoE & PoE+ Giga-MiniMc LFPT_3618ds

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SPECIFICATIONS

TECHNICAL	
IEEE 802.3 10Base-Tp twisted pair	
IEEE 802.3u 100Base-TX twisted pair	
IEEE 802.3ab 1000Base-TX 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	
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	
AC ADAPTER	
PoE Giga-MiniMc/LFPT	Input: 100 to 240 ±10% VAC, 50/60Hz, 0.7A * Output: 48 VDC, 0.62A
PoE+ Giga-MiniMc/LFPT	Input: 100 to 240 ±10% VAC, 50/60Hz, 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/LFPT	45 to 57 VDC on DC terminal block 48 VDC on DC jack
PoE+ Giga-MiniMc/LFPT	51 to 57 VDC on DC terminal block 51 to 57 VDC on DC jack

MECHANICAL	
Dimensions	2.032H x 9.258W x 9.7028D cm (0.80H x 3.645W x 3.82D in)
Shipping Weight	0.45 kg (1.0 lb)
ENVIRONMENTAL	
Operating Temperature DC Terminal Block:	0 to +70 °C (+32 to +158 °F)
Operating Temperature AC Adapter	0 to +50 °C (+32 to +122 °F)
Storage Temperature	-35 to +75 °C (-31 to +167 °F)
Operating Humidity	5% to 95% (non-condensing)
MEANTIME BEFORE FAILURE (MTBF)	
MTBF	SFP Models: 604306 hours Fixed Fiber Models: 602720 hours
MTBF Calculation Method	MIL217F Parts Count Reliability Prediction
REGULATORY APPROVALS, DIRECTIVES, STANDARDS	
FCC Class A	
UL/cUL, CSA, CE	
CE Directives	2014/30/EU – Electromagnetic Compatibility Directive 2011/65/EU – Reduction of Hazardous Substances Directive (RoHS) 2012/19/EU – Waste Electrical and Electronic Equipment (WEEE) 2014/35/EU – Low Voltage Directive
CE Standards	EMC: EN 55032 Class A – Information Technology Equipment - RF Emissions EN 55024 – Information Technology Equipment - Immunity Characteristics - Limits and Methods of Measurement EN 61000-3-2 – Emissions - Harmonic Currents Injected into the AC Mains EN 61000-3-3 – Emissions - Voltage Fluctuations/ Flicker Impressed on AC Mains SAFETY: EN 60850-1 – +A11 +A1 +A12 +A2

MECHANICAL DIAGRAM

Dimensions = inches (millimeters)

