

Industrial Grade 10/100/1000 Miniature Media Converters

IE-Giga-MiniMc (with LFPT Switch)

B+B SMARTWORX

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PRODUCT FEATURES

- Connects 10/100/1000 Mbps copper to 1000 Mbps fiber
- For use in extended temperatures
- Cascading power on DIN rail installations
- Dual USB power cable (optional)
- Link Fault Pass-Through (LFPT) capability via a DIP Switch
- Power options: DC, dual USB cable, AC adapter and PowerTray/18 chassis

Media conversion is the most cost-effective and flexible solution for implementing new technologies on legacy wiring plants and equipment. But even reasonably-priced media converters can tack on a substantial sum to networking costs. And space constraints can also be an issue when hundreds of conversions are required.

Measuring less than 3.5 inches deep and 2 inches wide, and having both data connections on the same side of the unit—the IE-Giga- MiniMc-LFPT is the industry's smallest media converter at a fraction of the cost of other alternatives. Link Fault Pass Through (LFPT) can be enabled/disabled via a DIP Switch on the unit, and is a useful diagnostic feature that assists the network administrator in indicating a fault condition on a given segment between the interfaces.

The unmanaged media converter offers Plug-and-Play, Auto Negotiation and AutoCross operation, while supporting extreme operating temperatures (-25° to +85° C). It can be powered with DC or AC power, with a dual USB cable or installed in a PowerTray/18 chassis.

The SFP model supports 100 Mbps or 1000 Mbps SFPs (fiber). This allows the customer to utilize the product

ORDERING INFORMATION

MODEL NUMBER	FIBER	FIBER PORTS	RANGE	ETHERNET PORTS	ETHERNET CONNECTOR
IE-Giga-MiniMc (with LFPT Switch)					
856-18929	SFP	1	Various	1	RJ45
856-18930	MM850-SC	1	220/550 m	1	RJ45
856-18931	SM1310-SC	1	15 km	1	RJ45

* These products have single-strand fiber technology. Deploy in pairs or connect another compatible Advantech B+B SmartWorx single-strand fiber product.

ACCESSORIES

806-39105 - DIN Rail Clip

806-39638 - Double-USB Power Cable, 36"/.9m

850-13086 - IE-PowerTray/18-AC (-20°C to +70°C), 18-slot AC powered chassis

895-39229 - Wall Mount Bracket

806-19720 - AC Power Adapter

All product specifications are subject to change without notice.
IE-Giga-MiniMc with LFPT Switch_1917ds

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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	
MTU: Supports Jumbo Frames up to 10240 bytes	
Extended temperature range (DC configuration)	
Plug-and-play operation	
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	
4-terminal DC power with a pair of input terminals and a pair of output terminals for cascading power on DIN installations	
Country-specific, high-reliability power adapter	
Auto Negotiation, Auto-Cross for MDI/MDIX	
Layer 2 packet switching, store and forward (forwarding rate: 14,881 pps for 10 Mbps, 148,810 pps for 100 Mbps, 1,488,096 pps for 1000 Mbps)	
Status LEDs	
Supports DIN Rail mounting	

MECHANICAL	
Dimensions	0.83 H x 1.80 W x 3.35 D inches (2.11H x 4.57W x 8.51D cm)
Shipping Weight	0.7 lbs (0.317 kg)
POWER	
AC Adapter	100 to 240 ±10% VAC input, 5 VDC @ 2.0 A max
DC Input Voltage	7 to 50 VDC @ 2.5 watts, Chassis grounded to negative terminal
Power Consumption	5 DVC, 600mA
ENVIRONMENTAL	
Operating Temperature: DC terminal block	-13 to +185 °F (-25 to +85 °C)
Operating Temperature: AC Adapter	+14 to +122 °F (-10 to +50 °C)
Storage Temperature:	-31 to +167 °F (-35 to +75 °C)
Operating Humidity	5% to 95% (non-condensing)
REGULATORY APPROVALS	
FCC Class B	
UL/cUL, CSA, CE	
MEANTIME BEFORE FAILURE (MTBF)	
MTBF	659,439 hours

MECHANICAL DIAGRAM

(dimensions in inches & millimeters)

