# Industrial Grade 10/100/1000 Miniature Media Converters

IE-Giga-MiniMc (with LFPT Switch)





#### **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

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

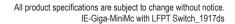
#### **ACCESSORIES**

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





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# **SPECIFICATIONS**

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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)

