Industrial Grade 10/100/1000
Miniature Media Converters
IE-Giga-MiniMc

B+B SMART**W**ORX

Powered by **ADVANTECH**

www.advantech-bb.com

PRODUCT FEATURES

- Connects 10/100/1000 Mbps copper to 1000 Mbps fiber
- For use in extended temperature environments
- Cascading power on DIN rail installations
- NEMA TS2 (select models)
- Power options: DC, AC power adapter, dual USB cable and Power/Tray/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 is the industry's smallest media converter at a fraction of the cost of other alternatives. It is an unmanaged, plug-and-play converter, offered with a variety of fiber types for single-mode and multi-mode fiber.

Th IE-Giga-MiniMc supports extreme operating temperatures (-25° to +85° C); it can be powered by DC or AC power, installed in a PowerTray/18, as well as using a dual USB power cable.

ORDERING INFORMATION

MODEL NUMBER	FIBER	FIBER	RANGE		ETHERNET
IE-Giga-MiniMc TX/FX SX or LX					
856-18830	MM850-SC	1	220/550 m	1	RJ45
856-18831	SM1310-SC	1	15 km	1	RJ45
856-18832	SM1310/PLUS-SC	1	30 km	1	RJ45
IE-Giga-MiniMc TX/FX SX or LX **- NEMA TS2 rated; modular versions without AC adapter**					
854-18830	MM850-SC	1	220/550 m	1	RJ45
854-18831	SM1310-SC	1	15 km	1	RJ45
SINGLE STRAND FIBER *					
856-18835	SSLX-SM1310-SC	1	15 km	1	RJ45
856-18836	SSLX-SM1550-SC	1	15 km	1	RJ45
856-18825	SSBX-SM1310-SC	1	10 km	1	RJ45
856-18837	SSLX-SM1310/PLUS-SC	1	40 km	1	RJ45

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

ACCESSORIES

806-39105 - DIN Rail Clip

806-39638 - Double-USB Power Cable, 36 inch (0.9m)

806-39650 - 12 inch (0.3m) Barrel-Connector Power Cable

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

895-39229 - Wall Mount Bracket

806-39753 - IE-Power/5V Module, AC to DC DIN Rail Power Adapter

806-39720 - AC Power Adapter

All product specifications are subject to change without notice.
IE-Giga-MiniMc_1917ds

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orders@advantech-bb.com
support@advantech-bb.com

Corporate Headquarters: 707 Dayton Road, PO Box 1040 Ottawa, IL 61350 USA   815-433-5100 Fax 433-5104
European Office: Westlink Commercial Park, Oranmore Co. Galway Ireland +353 91 792444 Fax +353 91 792445

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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
Accepts RJ45 and SC 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 and wall bracket mounting

MECHANICAL	
Dimensions	0.83H x 1.80W x 3.35D 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
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	
NEMA TS2 (select models)	
MEANTIME BEFORE FAILURE (MTBF)	
MTBF	659,439 hours

MECHANICAL DIAGRAM

(dimensions in inches & millimeters)

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