



Industrial Grade 10/100/1000 Miniature Media Converters

IE-Giga-MiniMc



PRODUCT FEATURES

- Connects 10/100/1000 Mbps copper to 1000 Mbps fiber
- For use in extended temperature environments
- Cascading power on DIN rail installations
- Dual USB power cable (optional)
- NEMA TS2 (select models)

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.

With Plug-and-Play, Auto Negotiation and AutoCross operation, extreme operating temperatures (-25° to +85° C), DC or AC power, the IE-Giga-MiniMc miniature media converter is easy and convenient to use.

ACCESSORIES

- 806-39105 - DIN Rail Clip
- 806-39638 - Double-USB Power Cable, 36"/.9m
- 806-39650 - 12"/.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

ORDERING INFORMATION

| MODEL NUMBER | FIBER | FIBER PORTS | RANGE | ETHERNET PORTS | ETHERNET CONNECTOR |
|--|-------------------------|-------------|-----------|----------------|--------------------|
| 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 |
| 856-18833 | SM1550/LONG-SC | 1 | 80 km | 1 | RJ45 |
| 856-18834 | SM1550/XLONG-SC | 1 | 100 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 |
| 856-18826 | SSBX-SM1490-SC | 1 | 10 km | 1 | RJ45 |
| 856-18837 | SSLX-SM1310/ PLUS-SC | 1 | 40 km | 1 | RJ45 |
| 856-18838 | SSLX-SM1550/ PLUS-SC | 1 | 40 km | 1 | RJ45 |
| 856-18827 | SSBX-SM1310/ PLUS-SC | 1 | 30 km | 1 | RJ45 |
| 856-18828 | SSBX-SM1490/ PLUS-SC | 1 | 30 km | 1 | RJ45 |
| 856-18839 | SSLX-SM1510/ LONG-SC | 1 | 70 km | 1 | RJ45 |
| 856-18840 | SSLX-SM1570/ LONG-SC | 1 | 70 km | 1 | RJ45 |

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

IE-Giga-MiniMc also available in CWDM Fiber. Call for details.

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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 mounting |

MECHANICAL

| | |
|-----------------|---|
| Dimensions | 0.83"H x 1.80"W x 3.35"D (2.11 x 4.57 x 8.51 cm) |
| Shipping Weight | 0.7 lbs (.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°F to +185°F (-25°C to +85°C) |
| Operating Temperature: AC Adapter | +14°F to +122°F (-10°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 B |
| UL/cUL, CSA, CE |
| NEMA TS2 (select models) |

MECHANICAL DIAGRAM

(dimensions in inches & millimeters)

