IE-Giga-MiniMc

Industrial Equipment 10/100/1000 Mbps Switching Miniature Media Converter

Networks

MEDIA CONVERSION

The IE-Giga-MiniMc is an industrial equipment version of the popular Giga-MiniMc Switching and Gigabit-Only Media Converters, offering Extended Temperature, DC power and DIN mounting options.

Features and Benefits

Most cost-effective fiber converter available today
- Connects 10/100/1000 Mbps copper to 1000 Mbps fiber
- For use in extreme temperatures (DC configuration)
- Power options for a variety of applications
- 4-terminal DC power with a pair of input terminals and a pair of output terminals for cascading power on DIN installations
- Country-specific AC power adapter
- Combine powering options for redundancy

Plug-and-Play Operation
- User-friendly Auto Negotiation technology
- Auto-Cross feature for twisted pair connection on all converters

Flexibility
- Rugged standalone metal enclosure with compact external power supply
- Multiple mounting options (Desktop, DIN Rail, IE-PowerTray/18-AC [for high-density installations])
- For multi-mode, single-mode or single-strand fiber

AC and DC Power Options:
- Included AC power adapter
- 4-Terminal Chassis-Grounded DC power block (7 to 50 VDC)

Quality product
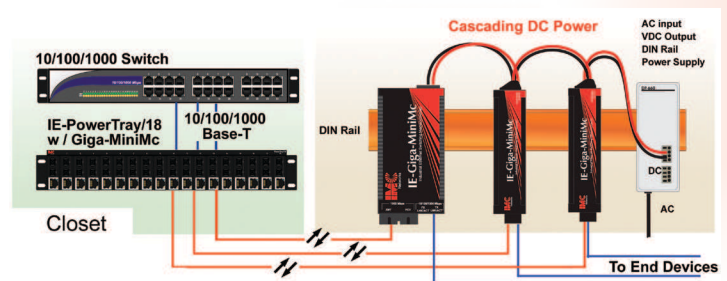- Made in USA with a comprehensive 6-year warranty

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.

IMC Networks once again has the solution! 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° C to +85° C), DC or AC power, the IE-Giga-MiniMc miniature media converter is easy and convenient to use.

Application Example

When installing multiple IE-Giga-MiniMc units on a DIN Rail (DIN clips sold separately), you can easily connect the DC input source from one IE-Giga-MiniMc DC power terminal to the next IE-MiniMc DC power terminal.

Technical Specifications

- 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
- Supports jumbo packets up to 1536 bytes
- Extended temperature range (DC configuration)
- Plug-and-play operation
- Accepts RJ-45 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 Mbps for 1000 Mbps)
- Status LEDs
- Supports DIN Rail mounting

Regulatory Approvals:
- FCC Class B
- UL/cUL, CE

Dimensions:

0.83" H x 1.80" W x 3.35" D
(2.11 cm x 4.57 cm x 8.51 cm)

Humidity:

5% to 95% (non-condensing)

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

Operating Temperature:

-13°F to +185°F (-25°C to +85°C) DC terminal block
+14°F to +122°F (-10°C to +50°C) with AC adapter

Storage Temperature:

-31°F to +167°F (-35°C to +75°C)

IE-PowerTray/18-AC
- 18 slots for powering MiniMc, MiniMc SFP, Giga-MiniMc, MiniMc-Gigabit, IE-MiniMc and IE-Giga-MiniMc fiber converters
- 1.5U high rack mountable enclosure

Regulatory Approvals:
- FCC Class A
- UL/cUL, CSA, CE

Dimensions
2.30"H x 16.97"W x 9.25"D
(5.80 x 43.10 x 23.5 cm)

Shipping Weight
10 lbs (4.5 kg)

Power Information
AC Input Load: 100-240V AC, 50/60 Hz, 1.5A

Operating Temperature
-4° to +158°F (-20° to +70°C)
5% to 95% (non-condensing),
0 - 10,000 ft. altitude

Storage Temperature
-40° to +185°F (-40° to +85°C)
5% to 95% (non-condensing)

Fiber Optics Specifications

For each product listed below in the Ordering Information section, the DISTANCE represents an approximate fiber distance based on industry-standard fiber attenuation specifications. Actual distances will vary for each installation. For complete power budgets and information on calculating specific distances, visit www.imcnetworks.com/go/fcs or contact IMC Networks Fiber Consulting Services at 949-465-3000.

Ordering Information

PART #	DESCRIPTION	DISTANCE
IE-Giga-MiniMc 10/100/1000		
856-18830	IE-Giga-MiniMc, TX/SX-MM850-SC	220/550 m
856-18831	IE-Giga-MiniMc, TX/LX-SM1310-SC	15 km
856-18832	IE-Giga-MiniMc, TX/LX-SM1310/PLUS-SC	30 km
856-18833	IE-Giga-MiniMc, TX/LX-SM1550/LONG-SC	80 km
856-18834	IE-Giga-MiniMc, TX/LX-SM1550/XLONG-SC	100 km
IE-Giga-MiniMc 10/100/1000 Single Strand Fiber*		
856-18835	IE-Giga-MiniMc, TX/SSLX-SM1310-SC	15 km
856-18836	IE-Giga-MiniMc, TX/SSLX-SM1550-SC	15 km
856-18825	IE-Giga-MiniMc, TX/SSBX-SM1310-SC	15 km
856-18826	IE-Giga-MiniMc, TX/SSBX-SM1490-SC	15 km
856-18837	IE-Giga-MiniMc, TX/SSLX-SM1310/PLUS-SC	40 km
856-18838	IE-Giga-MiniMc, TX/SSLX-SM1550/PLUS-SC	40 km
856-18827	IE-Giga-MiniMc, TX/SSBX-SM1310/PLUS-SC	30 km
856-18828	IE-Giga-MiniMc, TX/SSBX-SM1490/PLUS-SC	30 km
856-18839	IE-Giga-MiniMc, TX/SSLX-SM1510/LONG-SC	70 km
856-18840	IE-Giga-MiniMc, TX/SSLX-SM1570/LONG-SC	70 km
856-18841	IE-Giga-MiniMc, TX/SSLX-SM1510/XLONG-SC	80 km
856-18842	IE-Giga-MiniMc, TX/SSLX-SM1570/XLONG-SC	80 km

PART NUMBER	DESCRIPTION
IE-PowerTray/18	
850-13086	IE-PowerTray/18-AC (1.5U high, Rackmountable Enclosure)
MiniMc Series Accessories	
806-39105	DIN Rail Clip
895-39229	Wall Mount Bracket
806-39720	AC Power Adapter for MiniMc (10 watt, 0° to +50° C) - FranMar
806-39638	Double-USB Power Cable, 36" for Giga-MiniMc, MiniMc-Gigabit
806-39650	12" Barrel-Connector Power Cable
806-39753	IE-Power/5, AC to DC DIN Rail Power Adapter (-20° to +70° C)
806-00720-00	USA Power Adapter Clip - FranMar
806-00720-01	UK Power Adapter Clip - FranMar
806-00720-02	Europe Power Adapter Clip - FranMar
806-00720-03	Australia/NZ Power Adapter Clip

* These products have single-strand fiber technology. Deploy in pairs, or connect to another compatible IMC Networks single-strand fiber product. For more information go to: www.imcnetworks.com/products/SSFX.cfm