

MEDIA CONVERSION

The IE-Giga-MiniMc is an industrial equipment version of the popular Giga-MiniMc Switching and Gigabit-Only Media Converters, offering Extreme 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 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
- Mounts on DIN rail
- 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 America 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.

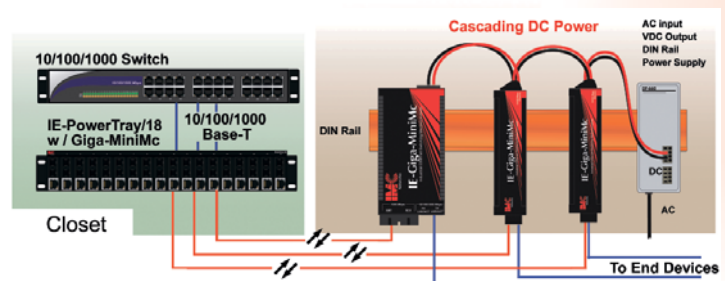
With Plug-and-Play, Auto Negotiation and AutoCross operation, extreme operating temperatures (-35° C to +70° C), DC power, AC power, and DIN mounting, the IE-Giga-MiniMc miniature media converter is easy and convenient to use.

IE-Giga-MiniMc includes:

- One 1000Base-SX or 1000Base-LX fiber port that auto-senses the connected device's duplex mode (Half-Duplex/ Full-Duplex)
- One twisted pair port that auto-senses the connected device's speed (10/100/1000) and duplex mode (Half-Duplex/Full-Duplex)
- An extreme operating temperature range (DC power configuration)
- Auto-Cross automatic selection of twisted pair cable crossover or straight-through
- Status LEDs
- DIN clips, allowing installation on a DIN rail

Application Example

The IE-Giga-MiniMc ships from the factory with DIN clips, allowing installation on a DIN rail. When installing multiple IE-Giga-MiniMc units on a DIN rail, 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 packets up to 1,632 bytes
- Extreme temperature range (DC configuration)
- Plug-and-play operation
- Accepts RJ-45, and ST or SC connectors
- 50/125 μ m or 62.5/125 μ m multi-mode fiber
- 9/125 μ m 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
- FX and TX Auto Negotiation
- AutoCross for MDI-II/MDI-X
- Layer 2 packet switching, store and forward (forwarding rate: 14,880 pps for 10 Mbps, 148,000 pps for 100 Mbps, 1,480,000 Mbps for 1000 Mbps)
- Status LEDs
- DIN clips for DIN-35 rail

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 \pm 10% VAC input, 5 VDC @ 1.0 A output

DC Input Voltage:

7 to 50 VDC @ 2.5 watts,
Chassis grounded to negative terminal

Operating Temperature:

-31° to +158° F (-35° to +70° C) DC configuration
+32° to +122° F (0° to +50° C) AC adapter

Storage Temperature:

-49° to +185° F (-45° to +85° C)

IE-PowerTray/18

- 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 | 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 | 70 km |
| 856-18834 | IE-Giga-MiniMc, TX/LX-SM1550/XLONG-SC | 120 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 | 60 km |
| 856-18840 | IE-Giga-MiniMc, TX/SSLX-SM1570/LONG-SC | 60 km |
| 856-18841 | IE-Giga-MiniMc, TX/SSLX-SM1510/XLONG-SC | 70 km |
| 856-18842 | IE-Giga-MiniMc, TX/SSLX-SM1570/XLONG-SC | 70 km |

| PART NUMBER | DESCRIPTION |
|------------------------------|--|
| IE-PowerTray/18 | |
| 850-13086 | IE-PowerTray/18-AC (1.5U high, Rackmountable Enclosure) |
| 850-32088 | IE-PowerTray/18-DC (1.5U high, Rackmountable Enclosure) |
| IE-MiniMc Accessories | |
| 806-39623 | AC Power Adapter for MiniMc products (10 watt, 0° C to +50° C) |
| 806-00322-00 | USA Power Adapter Clip |
| 806-00322-01 | UK Power Adapter Clip |
| 806-00322-02 | Europe Power Adapter Clip |
| 806-00322-03 | Australia/NZ Power Adapter Clip |
| 806-39628 | USB Power Cable for MiniMc 10/100 Only |

* 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



IMC Networks

Headquarters

19772 Pauling
Foothill Ranch, CA 92610
TEL: 949-465-3000
FAX: 949-465-3020
sales@imcnetworks.com
www.imcnetworks.com

IMC Networks

Europe

Herseltsesteenweg 268
B-3200 Aarschot | Belgium
TEL: +32-16-550880
FAX: +32-16-550888
eurosales@imcnetworks.com

IMC Networks

Eastern US/Latin America

18840 US Hwy. 19 North Suite 400
Clearwater, FL 33764
TEL: 727-524-8152/524-8071 (Latin)
FAX: 727-524-8432
latinsales@imcnetworks.com

IMC Networks

Fiber Consulting Services

For information call:
TEL: 949-465-3000
1-800-624-1070 (US/CAN)
+32-16-550880 (Europe)
fcs@imcnetworks.com

Copyright © 2009 IMC Networks. All rights reserved. The information in this document is subject to change without notice. IMC Networks assumes no responsibility for any errors that may appear in this document. Specific product names may be trademarks or registered trademarks and are the property of their respective companies.