MiniMc Series
Switching 10/100 Miniature Media Converters

The MiniMc Series offers the smallest, most reliable and cost-effective switching 10/100 Mbps media converters in the industry.

MEDIA CONVERSION

* SFPs sold separately

Features and Benefits

The most cost-effective fiber converters available today
- 10/100 Mbps switching MiniMc connects 10 or 100 Mbps copper to 100Mbps fiber (fixed or SFP version)
- 6-year comprehensive warranty on all converters and power adapter

Plug-and-Play Operation
- User-friendly 10/100 Mbps Auto Negotiation technology on switching MiniMc's
- AutoCross feature for twisted pair connection on all converters

Perfect for a variety of applications
- Standalone MiniMc includes country-specific, high-reliability AC power adapter or power the MiniMc with a USB-power cord
- Available with multi-mode fiber, single-mode fiber, single-strand fiber and SFPs

Space saving features
- Small, rugged enclosures with compact, external AC power adapters
- IE-PowerTray/18-AC Chassis supports up to 18 modules in the 1.5U high rack-mountable enclosure

Additional modes on select units
- Link Fault Pass-Through (LFPT): a troubleshooting feature that monitors the copper and fiber ports of the unit; if a port loses LINK, the unit disables the transmitting signal on the other port (Pass-Through) and notifies the user via LED

Media conversion is the most cost-effective solution for extending the productive life of legacy wiring plants and equipment while allowing implementation of new technologies. Media conversion's greatest benefits are flexibility and cost savings. However, with networks constantly growing and projects increasing in scope, even reasonably-priced media converters can tack on a substantial sum to networking costs. Space constraints can also be an issue when hundreds of conversions are required.

Designed and manufactured in the USA, the MiniMc Series extends 10 Mbps and 100 Mbps twisted pair network segments over regular duplex (up to 80 km) or single-strand fiber optics (up to 60 km).
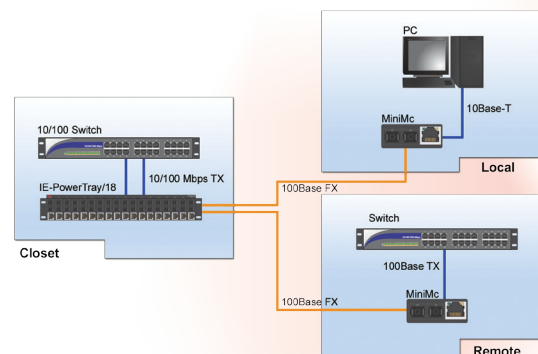
Both a media and data rate converter, MiniMc features 10/100 Auto Negotiation on the twisted pair port while the fiber port operates at 100 Mbps Fast Ethernet full duplex. MiniMc 10/100 switching fiber converters are ideal for all premises, FTTD, LAN-to-LAN or LAN-to-MAN fiber networking applications.

Multiple powering options include a country-specific AC wall adapter and USB-power cord. Or install the unit into the IE-PowerTray/18-AC which allows for 18 conversions in only 1.5U of rack space.

The MiniMc Series is fully compliant with IEEE standards, and is backed with a 6-year comprehensive warranty that includes the power supply.

Application Example

As a standalone unit, install *MiniMc* virtually anywhere, even areas where space is extremely limited. For applications requiring hundreds of connections, install *MiniMc's* in several of the very high-density *IE-PowerTray/18-AC* enclosures each of which allows 18 conversions in only 1.5 rack units of space.

Technical Specifications

- IEEE 802.3 10Base-T twisted pair
- IEEE 802.3u 100Base-TX twisted pair
- Supports jumbo packets up to 1916 bytes
- Plug-and-play operation
- RJ-45, ST or SC and SFP connectors available 50/125μm or 62.5/125μm multi-mode fiber
- 9/125μm single-mode fiber
- Available with single-strand fiber support
- Country-specific, high-reliability power adapter
- Auto Negotiation, Auto-Cross for MDI/MDIX
- Status LEDs

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

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 Rating:
5 VDC, 500mA

Operating Temperature:
+32° F to +122° F (0° C to +50° C);
5% to 95% (non-condensing)

AC Adapter:
+32° F to +122° F (0° C to +50° C);

Storage Temperature:
-31° F to +167° F (-35° C to +75° C);
5% to 95% (non-condensing)

IE-PowerTray/18-AC
- 18 slots for powering converters
- 1.5U high, rack mountable enclosure

Regulatory Approvals:
- FCC Class B
- 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)

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. Select units supports MSA compliant SFPs with a 155 Mbps bandwidth rating. IMC Networks provides a complete range of SFP transceivers in both Single and Duplex fiber versions with a full range of wavelengths and distance ratings. For complete power budget info 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 NUMBER	DESCRIPTION	DISTANCE
MiniMc 10/100 [1]		
855-10619	MiniMc, TP-TX/SFP [§]	Varies
855-10620	MiniMc, TP-TX/FX-MM850-ST	2 km
855-10621	MiniMc, TP-TX/FX-MM850-SC	2 km
855-10622	MiniMc, TP-TX/FX-MM1300-ST	5 km
855-10623	MiniMc, TP-TX/FX-MM1300-SC	5 km
855-10624	MiniMc, TP-TX/FX-SM1310/PLUS-ST	40 km
855-10625	MiniMc, TP-TX/FX-SM1310/PLUS-SC	40 km
855-10626	MiniMc, TP-TX/FX-SM1310/LONG-ST	80 km
855-10627	MiniMc, TP-TX/FX-SM1310/LONG-SC	80 km
855-10641	MiniMc, TP-TX/FX-SM1550/LONG-SC	80 km
MiniMc 10/100 Single-Strand Fiber [1][2]		
855-10650	MiniMc, TP-TX/SSFX-MM1300-SC	2 km
855-10651	MiniMc, TP-TX/SSFX-MM1550-SC	2 km
855-10652	MiniMc, TP-TX/SSFX-SM1310-SC	20 km
855-10653	MiniMc, TP-TX/SSFX-SM1550-SC	20 km
855-10654	MiniMc, TP-TX/SSFX-SM1310/PLUS-SC	40 km
855-10655	MiniMc, TP-TX/SSFX-SM1550/PLUS-SC	40 km
855-10656	MiniMc, TP-TX/SSFX-SM1310/LONG-SC	60 km
855-10657	MiniMc, TP-TX/SSFX-SM1550/LONG-SC	60 km

PART NUMBER	DESCRIPTION
IE-PowerTray/18-AC	
850-13086	IE-PowerTray/18-AC (1.5U high, Rack-mountable Enclosure)
Accessories	
806-39105	DIN Rail Clip
806-39720	AC Power Adapter (10 watt, 0° to +50° C) - FranMar
806-39628	36" USB Power Cable for MiniMc
806-39629	12" USB Power Cable for MiniMc
806-39650	12" Barrel-Connector Power Cable
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 - FranMar

[1] To order modular versions without an AC adapter, change the first three numbers to 854-.

[2] These products have single-strand fiber technology. Deploy in pairs, or connect to another compatible IMC Networks single-strand fiber product.

[§] Requires one SFP/155 Module. SFP modules are sold separately. For more information on compatible IMC Networks SFPs, go to: www.imcnetworks.com/Products/product.cfm?family=32

CWDM wavelengths are also available. Contact IMC Networks for a complete list of part numbers.

DS-MiniMc-1202