



The Optical Ethernet Company

MediaConverter Series

10, 100 and 1000 Mbps Ethernet Media Converters
Switching 10/100 Mbps Ethernet Media Converters

The MediaConverter Series is a cost-effective solution for extending the life of your legacy equipment and bringing fiber to the desktop.

Your network is growing and many new access points, workstations, etc. are required. However, legacy equipment, along with your existing wiring infrastructure, must work with any new equipment you implement in your network. When copper-to-fiber, copper-to-coax or fiber-to-fiber conversions are required, along with advanced troubleshooting features, our **MediaConverter Series** is the perfect solution.

IMC Networks' **MediaConverter Series** enables you to easily and cost-effectively connect one type of media to other dissimilar media or networking products. This series increases the functionality and extends the productive life of both your legacy cabling infrastructure and networking equipment when adding fiber to your network.

The MediaConverter series includes:

Media Converter Chassis:

- 1, 4, 8 and 12-slot varieties

Media Converter Modules:

McPIM:

- One 10 Mbps twisted pair port with an RJ-45 connector
- One 10 Mbps fiber port with ST, SC or MT-RJ connector(s)

McPIM TP/BNC:

- One 10 Mbps twisted pair port with an RJ-45 connector
- One 10 Mbps thin coaxial port with BNC connector

McLIM:

- One 100 twisted pair port with an RJ-45 connector
- One 100 Mbps fiber port with ST, SC or MT-RJ connector(s)

Switching McLIM TP-TX/FX:

- One 10/100 twisted pair port with an RJ-45 connector
- One 100 Mbps fiber port with ST or SC connector(s)
- Plug-and-play operation

McGigabit:

- One 1000 Mbps twisted pair port with an RJ-45 connector
- One 1000 Mbps fiber port with SC connector(s).
- Plug-and-play operation

Install modules in any combination in any *MediaConverter* chassis. If the number of required conversions is high but rackmount space is limited, choose the 1U high 12-slot chassis. *McPIMs* and *McLIMs* (TX/FX and TX/SX) include troubleshooting features such as *LinkLoss* and *FiberAlert* that make isolating fiber breaks easier should they occur. *McPIM TP/BNC* includes switch-selectable termination on BNC ports.



Modules meet a variety of installation requirements

- Supports Ethernet, Fast Ethernet, and Gigabit Ethernet, and up to OC-3 for mode converters
- Available for multi-mode or single-mode fiber with ST, SC or MT-RJ fiber connectors
- Supports very long fiber distances

A variety of chassis options

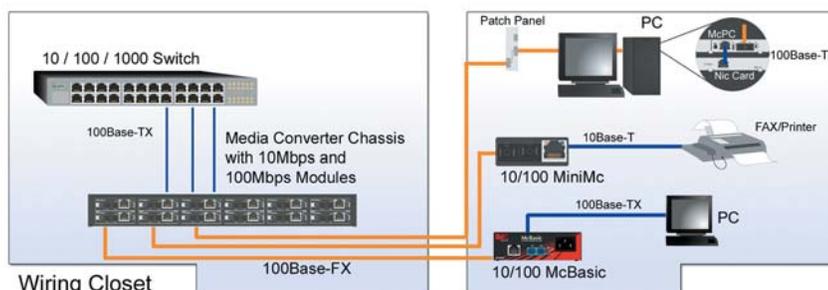
- Table-top or rackmountable
- 1-, 4-, 8- and 12-slot chassis
- 12-slot chassis is only 1U high
- AC or DC power on 12-slot chassis

Maximizes network uptime

- Modular, hot-swappable architecture reduces operational costs associated with product installation, upgrades and maintenance

Eases Troubleshooting

- *LinkLoss* and *FiberAlert* features assist in diagnosing problems on fiber optic networks



Technical Specifications

All MediaConverter Modules

- Install in any MediaConverter chassis
- 50/125µm or 62.5/125µm multi-mode fiber*
- 9/125µm single-mode fiber*
- Support Half- and Full-Duplex operation
- Include diagnostic LEDs
- Include hot-swappable architecture

McPIM

- 10Base-T twisted pair
- 10Base-FL fiber
- 10Base-2 coax
- Includes MDI-II/MDI-X switch
- Features LinkLoss and Pulsing FiberAlert*

McLIM

- 100Base-TX twisted pair
- 100Base-FX or SX fiber
- AutoCross for MDI-II/MDI-X
- Features LinkLoss and FiberAlert
- Features Auto-Negotiation

McLIM TP-TX/FX

- 10Base-T twisted pair
- 100Base-TX twisted pair
- 100Base-FX or SX fiber
- AutoCross for MDI-II/MDI-X
- Features Auto-Negotiation
- Available for single-strand fiber

McGigabit

- 1000Base-T twisted pair
- 1000Base-LX or SX fiber
- AutoCross for MDI-II/MDI-X
- Available for single-strand fiber

Chassis

MediaConverter/1

Dimensions: 1.60"H x 4.75"W x 5.20"D
(4.06 x 12.07 x 13.21 cm)

Shipping Weight: 2 lbs (.9 kg)

AC Input Load: 100/240 ±10% VAC, 50/60Hz,
0.1/0.05A

MediaConverter/4

Dimensions: 1.75"H x 8.60"W x 4.73"D
(8.3 x 21.84 x 12.01 cm)

Shipping Weight: 3.5 lbs (1.6 kg)

AC Input Load: 100/240 ±10% VAC, 50/60Hz,
0.1/0.05A

MediaConverter/8

Dimensions: 1.75"H x 17.4"W x 4.70"D
(4.45 x 44.20 x 11.94 cm)

Shipping Weight: 6.25 lbs (2.8 kg)

AC Input Load: 100/240 ±10% VAC,
50/60Hz, 0.5/0.2A

MediaConverter/12

- 12 slot chassis is only 1U high
 - 12 slot available with AC or DC power
 - 12 slot available with redundant power
- Dimensions /12x:** 1.75"H x 17.40"W x 8.76"D
(4.45 x 44.20 x 22.25 cm)

Shipping Weight: 11.0 lbs (5 kg)

AC Input Load: 100/240 ±10% VAC, 50/60Hz,
0.5/0.2A

DC Input Load: -48 ±10% VDC, 1A

Environmental Specifications for Series

Operating Temperature:**

32° to 122°F (0° to +50°C); 5% to 90% (non-condensing), 0 – 10,000 ft. altitude

Storage Temperature:**

-13° to +158°F (-25° to +70°C); 5 to 90% (non-condensing)

*Modules with fiber ports only.

** Some products may support lower operating and storage temperatures.

Fiber Optics Specifications

For each product listed below in the Ordering Information section, the number in the [XX] denotes an approximate fiber distance based on industry-standard fiber specifications and worst-case (connector loss, aged fiber, splices, etc.) installations. You can typically achieve substantially longer distances. Actual distances may vary for each installation. For complete power budgets and information on calculating specific distances, please visit web site our at www.imcnetworks.com/gofcs or contact IMC Networks Fiber Consulting Services at 949-465-3000. Twisted pair distance is 100 meters.

Ordering Information

51-10901	MediaConverter/1-AC — 1-slot, table-top, internal AC power supply
51-10904	MediaConverter/4-AC — 4-slot, table-top, internal AC power supply
51-10908	MediaConverter/8-AC — 8-slot, rack-mountable, internal AC power supply
51-10912	MediaConverter/12x-AC — 12-slot, 1U high rack-mountable, includes one PS/40x-AC Power Module
51-10913	MediaConverter/12x-DC — 12-slot, 1U high rack-mountable, includes one PS/50x-DC Power Module

Redundant Power Supplies and Accessories

06-39040	PS/40x-AC Power Module — 40 watt VAC
06-39450	PS/50x-DC Power Module — 50 watt VDC
95-39901	MediaConverter/1 Rackmount Bracket

NOTE: Chassis and power supplies have 100/240 ±10% VAC power or -48 ±10% VDC power

10 Mbps Media Conversion Modules

55-12840	McPIM, TP/FO-MM850-ST [4 Km]
55-12841	McPIM, TP/FO-MM850-SC [4 Km]
55-12842	McPIM, TP/FO-MM1300-ST [10 Km]
55-12843	McPIM, TP/FO-MM1300-SC [10 Km]
55-12844	McPIM, TP/FO-SM1310-ST [40 Km]
55-12845	McPIM, TP/FO-SM1310-SC [40 Km]
55-12846	McPIM, TP/FO-SM1310/PLUS-ST [80 Km]
55-12847	McPIM, TP/FO-SM1310/PLUS-SC [80 Km]
55-12848	McPIM, TP/FO-SM1310/LONG-ST [100 Km]
55-12848	McPIM, TP/FO-SM1310/LONG-SC [100 Km]
51-12724	McPIM, TP/BNC

100 Mbps Media Conversion Modules

55-12660	McLIM, TX/FX-MM1300-ST [2 Km]
55-12661	McLIM, TX/FX-MM1300-SC [2 Km]
55-12660-MT	McLIM, TX/FX-MM1300-MT [2k Km]
55-12662	McLIM, TX/SX-MM850-ST [300 m]
55-12663	McLIM, TX/SX-MM850-SC [300 m]
55-12664	McLIM, TX/FX-SM1310/PLUS-ST [40 Km]
55-12665	McLIM, TX/FX-SM1310/PLUS-SC [40 Km]
55-12667	McLIM, TX/FX-SM1310/LONG-ST [80 Km]

55-12668	McLIM, TX/FX-SM1310/LONG-SC [80 Km]
55-12669	McLIM, TX/FX-SM1550/LONG-SC [100 Km]

Single-Strand Fiber¹

55-12680	McLIM, TX/SSFx-SM1310-SC [20 Km]
55-12681	McLIM, TX/SSFx-SM1550-SC [20 Km]
55-12682	McLIM, TX/SSFx-SM1310/PLUS-SC [40 Km]
55-12683	McLIM, TX/SSFx-SM1550/PLUS-SC [40 Km]
55-12684	McLIM, TX/SSFx-SM1310/LONG-SC [80 Km]
55-12688	McLIM, TX/SSFx-SM1550/LONG-SC [80 Km]

10/100 Mbps Switching, Media Conversion Modules

55-12620	McLIM, TP-TX/FX-MM850-ST [300 m]
55-12621	McLIM, TP-TX/FX-MM850-SC [300 m]
55-12622	McLIM, TP-TX/FX-MM1300-ST [2 Km]
55-12623	McLIM, TP-TX/FX-MM1300-SC [2 Km]
55-12624	McLIM, TP-TX/FX-SM1310/PLUS-ST [40 Km]
55-12625	McLIM, TP-TX/FX-SM1310/PLUS-SC [40 Km]

Single-Strand Fiber¹

55-12642	McLIM, TP-TX/SSFx-SM1310-SC [20 Km]
55-12643	McLIM, TP-TX/SSFx-SM1550-SC [20 Km]
55-12644	McLIM, TP-TX/SSFx-SM1310/PLUS-SC [40 Km]
55-12645	McLIM, TP-TX/SSFx-SM1550/PLUS-SC [40 Km]

1.25 Gbps Media Conversion Modules

55-12670	McGigabit, TX/SX-MM850-SC [300 m]
55-12671	McGigabit, TX/LX-SM1310-SC [10 Km]
55-12672	McGigabit, TX/LX-SM1310/PLUS-SC [40 Km]
55-12673	McGigabit, TX/LX-SM1550/LONG-SC [70 Km]

Single-Strand Fiber¹

55-12674	McGigabit, TX/SSLX-SM1310-SC [10 Km]
55-12675	McGigabit, TX/SSLX-SM1550-SC [10 Km]

55-12676	McGigabit, TX/SSLX-SM1310/PLUS-SC [40 Km]
55-12677	McGigabit, TX/SSLX-SM1550/PLUS-SC [40 Km]

¹ This product has 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