

MediaConverter Series

Low-Cost Media and Fiber Mode Conversion

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.

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

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.

MediaConverter Modules, including **McPIM™** (10 Mbps), **McLIM™** (100 Mbps), **McGigabit™** (1.25 Gbps) and **S2MM™** (protocol-independent), are available in a variety of configurations to address a wide range of requirements in fiber optic connectivity. Modules can be used in any combination in any *MediaConverter* chassis (available in 1-, 4-, 8- and 12-slot varieties). If the number of required conversions is high but rack-mount space is limited, choose the 1U high 12-slot chassis.

10 Mbps, 100 Mbps and 1.25 Gbps Media Conversion Modules

McPIMs provide a single conversion between 10 Mbps Ethernet twisted pair and thin coax (BNC), multi-mode or single-mode fiber. *McLIMs* provide a single conversion between 100 Mbps Fast Ethernet twisted pair and multi-mode or single-mode fiber. The *McLIM TP-TX/FX* switching media converter provides a single conversion between 10 Mbps or 100 Mbps Ethernet twisted pair and 100 Mbps multi-mode or single-mode fiber. *McGigabit* provides a single conversion between 1.25 Gbps Ethernet twisted pair and multi-mode or single-mode fiber. *McLIM TP-TX/FX* and *McGigabit* are also available for single-strand fiber.

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. To ensure compatibility with other networking hardware, *McLIMs* feature *Auto-Negotiation*. *McLIM TP-TX/FX* and *McGigabit* offer plug-and-play operation; no DIP switches to configure. *McPIMs* have switch-selectable crossover/pass-through on twisted pair connections while *McLIM TP-TX/FX* and *McGigabit* include the *AutoCross* feature which automatically selects the type of connection.* *McPIM TP/BNC* includes switch-selectable termination on BNC ports. All modules support Half- and Full-Duplex operation.

Protocol-Independent Fiber Mode Conversion Modules

S2MM Module Sets are protocol-independent modules used to convert multi-mode fiber to single-mode using transmission speeds from 10 Mbps Ethernet to 155 Mbps (OC-3).

Hot-swappable *MediaConverter Modules* significantly reduce operation costs by allowing other modules within the same *MediaConverter* chassis to remain up and running during product upgrades, maintenance and troubleshooting. All modules also feature LEDs that assist in network diagnostics and troubleshooting. Some modules support Small Form Factor fiber connectors.

* NOTE: The type of twisted pair connection for *McLIM TX/FX* and *TX/SX* is determined by the end device to which the module is connected.



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 Small Form Factor fiber connectors
- ◆ Supports very long fiber distances

A variety of chassis from which to choose

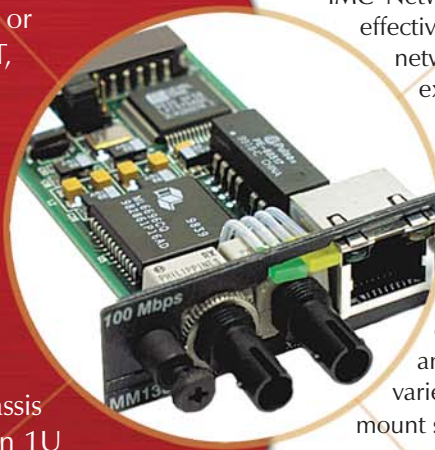
- ◆ Table-top or rackmountable
- ◆ 1-, 4-, 8- and 12-slot chassis
- ◆ 12-slot chassis available in 1U high and 2U high configurations
- ◆ AC or DC power

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



Making Your Net**work** Better

Chassis Specifications

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

Maximum Heat Generated: 30 BTU/hour

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

Maximum Heat Generated: 30 BTU/hour

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

Maximum Heat Generated: 150 BTU/hour

MediaConverter/12

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

Maximum Heat Generated: 150 BTU/hour

NOTE: All chassis have the following: **Operating Temperature:** 32° – 104°F (0° – 40°C)
Storage Temperature: 0° – 160°F (-20° – 70°C) **Humidity:** 5 – 95% (non-condensing)

Fiber Optic Distances

For general fiber distances for each *MediaConverter Module* or for information on calculating specific distances, please go to www.imcnetworks.com/adocs/fcs.asp or contact IMC Networks Fiber Consulting Services at 949-465-3000.

Ordering Information

Modular Chassis

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

Redundant Power Supplies

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|----------|--------------------------------------|
| 06-39040 | PS/40x Power Module — 40 watt VAC |
| 06-39450 | PS/50x-DC Power Module — 50 watt VDC |

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

10 Mbps Media Conversion Modules

| | |
|----------|------------------------------------|
| 55-12926 | McPIM, TP/FO-MM850-ST [4km] |
| 55-12916 | McPIM, TP/FO-MM850-SC [4km] |
| 55-12976 | McPIM, TP/FO-MM1300-ST [10km] |
| 55-12986 | McPIM, TP/FO-MM1300-SC [10km] |
| 55-12946 | McPIM, TP/FO-SM1310-ST [20km] |
| 55-12996 | McPIM, TP/FO-SM1310-SC [20km] |
| 55-12956 | McPIM, TP/FO-SM1310/PLUS-ST [40km] |
| 55-12966 | McPIM, TP/FO-SM1310/PLUS-SC [40km] |
| 51-12724 | McPIM, TP/BNC |

100 Mbps Media Conversion Modules

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|-------------|------------------------------------|
| 55-12626 | McLIM, TX/FX-MM1310-ST [2km] |
| 55-12627 | McLIM, TX/FX-MM1310-SC [2km] |
| 55-12626-MT | McLIM, TX/FX-MM1310-MT [2km] |
| 55-12630 | McLIM, TX/SX-MM850-ST [300m] |
| 55-12631 | McLIM, TX/SX-MM850-SC [300m] |
| 55-12646 | McLIM, TX/FX-SM1310/PLUS-ST [40km] |
| 55-12647 | McLIM, TX/FX-SM1310/PLUS-SC [40km] |
| 55-12648 | McLIM, TX/FX-SM1310/LONG-ST [80km] |

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|-------------|------------------------------------|
| 55-12649 | McLIM, TX/FX-SM1310/LONG-SC [80km] |
| 55-12648-LC | McLIM, TX/FX-SM1310/LONG-LC [80km] |
| 55-12666 | McLIM, TX/FX-SM1550/LONG-SC [80km] |

10/100 Mbps Switching, Media Conversion Modules

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|----------|---------------------------------------|
| 55-12622 | McLIM, TP-TX/FX-MM1300-ST [2km] |
| 55-12623 | McLIM, TP-TX/FX-MM1300-SC [2km] |
| 55-12625 | McLIM, TP-TX/FX-SM1310/PLUS-SC [40km] |

McLIM TP-TX/SSFx (Single-strand)

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|----------|--|
| 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

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|----------|---|
| 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] |

McGigabit TX/SSLX (Single-Strand)

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|----------|---|
| 55-12674 | McGigabit, TX/SSLX-SM1310-SC [30 [Km] |
| 55-12675 | McGigabit, TX/SSLX-SM1550-SC [30 Km] |
| 55-12676 | McGigabit, TX/SSLX-SM1310/PLUS-SC [40 Km] |
| 55-12677 | McGigabit, TX/SSLX-SM1550/PLUS-SC [40 Km] |

Protocol-Independent Mode Conversion Module Sets

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|----------|-----------------------------|
| 51-12636 | S2MM1300-ST Set [20km] |
| 51-12637 | S2MM1300-SC Set [20km] |
| 51-12656 | S2MM1300/PLUS-ST Set [40km] |
| 51-12657 | S2MM1300/PLUS-SC Set [40km] |
| 51-12626 | S2MM850-ST Set [20km] |
| 51-12627 | S2MM850-SC Set [20km] |
| 51-12646 | S2MM850/PLUS-ST Set [40km] |
| 51-12647 | S2MM850/PLUS-SC Set [40km] |



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