

## Single-Mode (SM) LC Fiber Media Converter for 10/100/1000 Networks, Standalone Gigabit Ethernet to Fiber Converter, 40km - TAA

**Product ID:** MCM1110SMLC40



This Gigabit Ethernet to fiber media converter offers a reliable way to extend your network up to 40 km (24.8 mi.) using single-mode LC fiber, providing increased range, enhanced security, and reduced interference compared to copper-based connections. It's TAA compliant and designed for government and commercial applications where long-distance and rack-mountable fiber access is needed.

Convert 10/100/1000 Mbps RJ-45 to Gigabit LC fiber using a media converter that complies with IEEE 802.3 standards. It supports full/half duplex, auto-negotiation, MDI/MDI-X, and 9K jumbo frames for high-performance networking in mixed copper-fiber environments.

Built with a compact full metal chassis, this converter includes LED indicators for power and link activity, plus a DIP switch to enable Link Fault Passthrough (LFP) with LLCF/LLR for easier network troubleshooting and reliability.

Deploy in minutes with plug-and-play setup and multiple mounting options including wall-mount, DIN-rail, or media chassis installation. It includes a 5V DC, 2A power adapter, making it ideal for server rooms or network closets.

### Certifications, Reports and Compatibility



### Applications

### Features

- **Extend Ethernet Over Extraordinary Distances**: Convert and extend a 10/100/1000 Mbps Ethernet signal to Gigabit single-mode LC fiber, up to 40km (24.8mi); For specialized edge, industrial / remote deployments requiring long-range, secure wired connectivity
- **Reliable Performance & Diagnostics**: Compatible with 1000BASE-T (IEEE 802.3ab) and 1000BASE-LX (IEEE 802.3z); Supports full/half duplex, 9K jumbo frames, auto-negotiation, and auto MDI/MDI-X; DIP switch enables Link Fault Passthrough (LFP) with LLCF/LLR
- **Durable, Compact Design**: Metal chassis provides strong shielding and durability; Compact size fits into tight spaces or compatible chassis (MCM7-MEDIA-CHASSIS, MCM15-MEDIA-CHAASIS); LED indicators enable at a glance monitoring of link, power, and activity
- **Install Flexibly in Any Environment**: Plug-and-play media converter supports wall, DIN rail, or chassis mounting for secure placement in server rooms or network closets; Includes a 5V DC power adapter for consistent operation
- **The IT Pro's Choice**: Engineered for edge, on-prem, and aerospace/defense applications requiring compliant connectivity; TAA certified and lab-tested for mission-critical reliability and backed by free lifetime 24/5 multilingual technical support

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#### Hardware

Warranty	2 Years
PoE	No
WDM	No
Industry Standards	IEEE 802.3ab 1000BASE-T IEEE 802.3z 1000BASE-LX IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX

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#### Performance

Maximum Data Transfer Rate	2 Gbps (Full-Duplex)
Max Transfer Distance	40 km (24.8 mi)
Type	Single Mode
Wavelength	1310nm
Fiber Operating Mode	Half/Full-Duplex
Flow Control	None
Remote Management	No

Ability	
Compatible Networks	1000 Mbps (1 Gbps)
Auto MDIX	Yes
Jumbo Frame Support	9K max.
Switching Architecture	None
MTBF	50,000 Hours

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**Connector(s)**

Local Unit Connectors	1 - Fiber Optic LC Duplex
	1 - RJ-45

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**Indicators**

LED Indicators	1 - PWR
	1 - RPF
	1 - LFP
	1 - LNK
	1 - LINK - RJ45
	1 - FULL - RJ45

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**Power**

Power Source	AC Adapter Included
Input Voltage	100 - 240 AC
Input Current	0.4 A
Output Voltage	5 DC
Output Current	2 A
Center Tip Polarity	Positive
Plug Type	M
Power Consumption (In Watts)	4.6

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**Environmental**

Operating Temperature	0C to 50C (32F to 122F)
Storage Temperature	-10C to 70C (14F to 158F)
Humidity	5~95% RH (Non-condensing)

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**Physical Characteristics**

Color	Black
Material	Metal
Product Length	3.1 in [79 mm]
Product Width	3.7 in [94 mm]
Product Height	1.0 in [26 mm]
Weight of Product	0.0 lb [0.0 kg]

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**Packaging Information**

Package Length	11.0 in [28.0 cm]
Package Width	5.2 in [13.3 cm]
Package Height	2.6 in [6.6 cm]
Shipping (Package) Weight	11.6 oz [328.0 g]

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**What's in the Box**

Included in Package	1 - Media Converter
	1 - Universal Power Adapter
	1 - Product Documentation

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**Warranty Information**

Warranty	2 Years
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***\*Product appearance and specifications are subject to change without notice.***