

## Gigabit Ethernet Copper-to-Fiber Media Converter - SM LC - 10 km - TAA

**Product ID:** ET91000SM10



This Gigabit Ethernet to fiber media converter is a cost-effective way to extend your network, or extend the distance between two devices by up to 10 km (6.2 mi.).

Fiber network connections provide greater distance and security, with less electromagnetic interference (EMI) than typical RJ45 copper-based networks, making it perfect for IT professionals and secure setups in government, business, or educational applications.

This versatile copper-to-fiber converter supports standalone operation. The card module can also be inserted back into the ET91000SM10 enclosure, plus it's compatible with enclosures from other StarTech.com ET91000 series media converters (sold separately).

The converter features a pre-installed Gigabit SFP transceiver with LC connectors. Should your network infrastructure change in the future, you can easily swap and replace the module to adapt the media converter to your new network requirements.

With flexible integration and connectivity up to 10 km away, you can provide network access to remote areas in other buildings, or in areas where Wi-Fi is unreliable or unavailable.

This heavy-duty fiber media converter is designed for maximum reliability. It features a metal (steel) enclosure, so it can withstand the demands of harsh environments such as factories or warehouses.

Plus, by relying on this more durable fiber media converter, you can reduce the strain on your existing copper-based network equipment and potentially extend the life of those devices, which helps save future expenses.

This high-performance media converter supports a range of network setup and diagnostic protocols (for example, Link Fault Passthrough, Auto Laser Shutdown (ALS), and Auto MDIX), so you can set up and troubleshoot your network easily.

If your existing network consists of RJ45 copper-based devices and cables, you might not be ready for future network expansion. Because the newest fiber-based network switches feature SFP ports more often than RJ45 ports, you might need a converter to bridge your copper and fiber networks together.

The ET91000SM10 is backed by a StarTech.com 2-year warranty, and free lifetime technical support.

## Certifications, Reports and Compatibility



## Applications

- Use fiber optic cable to connect to your network from remote areas or separate buildings, at greater distances than copper (RJ45) cable allows
- Perfect for secure connections required by government agencies where EMI isn't acceptable
- Easily expand the number of ports on your existing network now, or in the future — perfect for small and medium businesses

## Features

- **ETHERNET OVER FIBER EXTENSION:** Use this full / half duplex fiber media converter to convert and extend a Gigabit Ethernet connection up to 10km (6.2mi) using singlemode LC fiber cable
- **INCLUDES SFP:** For added convenience, this IT-grade network fiber media converter includes an SFP transceiver (mini gbic), enabling an 1310nm LC single mode Gigabit fiber connection
- **MAXIMUM DURABILITY:** Built to withstand harsh environments, this rugged media converter has a durable steel housing, and has an operating temperature range of 0C-50C (32F-122F)
- **SPECS:** Supports Link Fault Passthrough (LFP), Auto Laser Shutdown (ALS), VLAN tagging, and Auto MDIX; Up to 9.6K Jumbo Frame support; Compatible with Gigabit (1000Mbps) copper (IEEE 802.3ab, 1000BASE-T) and fiber (IEEE 802.3z, 1000BASE-LX) protocols
- **THE IT PRO'S CHOICE:** Designed and built for IT Professionals, this ethernet fiber converter is backed for 2-Years, including free lifetime 24/5 multi-lingual technical assistance

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### Hardware

Warranty	2 Years
PoE	No
WDM	No
Industry Standards	IEEE 802.3ab (1000BASE-T) IEEE 802.3z (1000BASE-LX)

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**Performance**

Maximum Data Transfer Rate	2 Gbps (Full-Duplex)
Max Transfer Distance	10 km (6.2 mi)
Type	Single Mode
Wavelength	1310nm
Fiber Operating Mode	Half/Full-Duplex
Flow Control	None
Remote Management Ability	No
Compatible Networks	1000 Mbps (1 Gbps)
Auto MDIX	Yes
Jumbo Frame Support	9.6K max.
Switching Architecture	None
MTBF	65,000 Hours

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**Connector(s)**

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

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**Special Notes / Requirements**

System and Cable Requirements	The media converter can only be used with Gigabit SFP modules, and will not support 10/100Mbps modules.
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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	0.48 A
Output Voltage	12V DC
Output Current	1.6 A
Center Tip Polarity	Positive
Plug Type	M
Power Consumption (In Watts)	19.2

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**Environmental**

Operating Temperature	0C to 50C (32F to 122F)
Storage Temperature	-10C to 70C (14F to 158F)
Humidity	10-90% RH (Non-condensing)

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**Physical Characteristics**

Color	Black
Material	Steel
Product Length	5.5 in [14.0 cm]
Product Width	3.5 in [8.8 cm]
Product Height	0.9 in [2.3 cm]
Weight of Product	14.5 oz [411.0 g]

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**Packaging Information**

Package Quantity	1
Package Length	5.7 in [14.4 cm]
Package Width	8.1 in [20.6 cm]
Package Height	3.5 in [8.9 cm]

Shipping (Package)  
Weight 1.7 lb [0.8 kg]

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**What's in the Box**

Included in Package	1 - Gigabit Ethernet fiber media converter
	1 - universal power adapter (NA/JP, EU, UK, ANZ)
	1 - Grounding Screw
	1 - instruction manual

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**Warranty  
Information**

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

