Data Sheet

Gigabit Ethernet to SC Fiber Media Converter - 1000Base-LX - Single-mode - 10 km

Product ID: MCMGBSCSM10



This fiber media converter converts and extends a Gigabit Ethernet fiber (1000 Mbps) network up to 10 km over single-mode fiber on 1000BASE-LX networks.

Extend your GbE network cost-effectively

The fiber media converter provides a cost-effective way to transparently convert copper to fiber, or fiber to copper, for connecting remote sub-networks to larger fiber-optic networks. Providing both SC fiber and RJ45 Ethernet ports, it integrates easily into a wide range of Gigabit Ethernet network infrastructures. The RJ45 port supports triple-speed (10/100/1000 BASE-T) auto-negotiation.

Reliable and scalable network connectivity

Supporting a maximum single-mode fiber cable distance of up to 10 km (6.2 mi.), the media converter delivers a simple and reliable solution for connecting Gigabit Ethernet networks to remote locations, while ensuring solid network performance. It provides optimum network scalability for connecting two or more Ethernet network nodes, for instance, connecting two buildings on the same campus or facility. The media converter also delivers high-speed bandwidth to meet the increasing demands of large-scale workgroups that require expansion of a Gigabit Ethernet network.

The MCMGBSCSM10 is backed by a StarTech.com 2-year warranty and free lifetime technical support.

Certifications, Reports and Compatibility

RoHS Compliant Available

Applications

- Extend an Ethernet connection by up to 10 km (6.2 miles) over a fiber backbone
- Create an economical Ethernet-fiber/copper-fiber link for connecting remote sub-networks to larger fiber-optic networks/backbones
- Converts Ethernet to fiber, and fiber to copper to provide a cost-effective networking solution

Features

- Converts and extends a Gigabit fiber (1000 Mbps) network over single-mode fiber on 1000BASE-LX networks
- Provides a cost-effective Ethernet to fiber/copper to fiber link
- Supports a maximum distance of 10 km over single mode duplex fiber optic cable (SC connection)
- Compact design and wall mountable
- Non-blocking full wire-speed forwarding rate
- Provides DIP switch supporting Link Fault Pass-through function
- LED Indicators for simple Ethernet/fiber network link monitoring
- 1310 nm wavelength
- Supports IEEE 802.1q Tag VLAN pass through

	Warranty	2 Years
Hardware	Industry Standards	IEEE 802.3u 100BASE-LX
		IEEE 802.3ab 1000BASE-T
		IEEE 802.3u 100BASE-TX
		IEEE 802.3x full-duplex flow control
		IEEE 802.3 10BASE-T
		IEEE 802.1q VLAN pass through
	PoE	No
	WDM	No
Performance	Auto MDIX	Yes
	Fiber Operating Mode	Full-Duplex
	Jumbo Frame Support	9K max.
	Max Distance	10 km (6.2 mi)
	Max Transfer Distance	10 km (6.2 mi)
	Maximum Data Transfer Rate	1000 Mbps (1 Gbps)
	MTBF	> 50,000 hours at 25°C
	Supports a maximum distance of 10 km over SM duplex fiber optic cable (SC connection), and 100m over copper (RJ45 connection) Data Transfer Rate Copper	10/100/1000 Mbps Data Transfer Rate Fiber: 1000 Mbps ESD Surge Protection: 1KV. Contact discharge - 4KV. Air discharge - 8KV
	Switching Architecture	Store-and-Forward
	Wavelength	1310nm
Indicators	LED Indicators	1 - 1000 Link: ON - Valid Gigabit Link
		1 - FX Link/Activity
		1 - Power
		1 - TP Link/Activity
Power	Center Tip Polarity	Positive
	Input Current	0.5 A
	Input Voltage	100 ~ 240 AC
	Output Current	2.6 A
	Output Voltage	5 DC
	Plug Type	N

	Power Consumption (In Watts)	5
	Power Source	AC Adapter Included
Environmental	Humidity	5 ~ 90% RH
	Operating Temperature	0°C to 50°C (32°F to 122°F)
	Storage Temperature	-10°C to 70°C (14°F to 158°F)
Physical Characteristics	Product Height	1 in [26 mm]
	Product Length	2.8 in [70 mm]
	Product Weight	6.9 oz [196 g]
	Product Width	4.1 in [105 mm]
Packaging Information	Shipping (Package) Weight	19.8 oz [560 g]
What's in the Box	Included in Package	1 - media converter
		1 - universal power adapter (NA/JP, UK, EU, ANZ)
		1 - quick-start guide
	Fiber Type	Single Mode
	Local Unit Connectors	1 - RJ-45 Female
	Remote Unit Connectors	1 - Fiber Optic SC Duplex Female

Product appearance and specifications are subject to change without notice.