

Introduction:

The MC-3000 series has been specifically design to address the needs of Gigabit network configurations' setup in single and multi-mode fiber cabling environments.

These converters offer high speed transparent conversion between single mode cable segments and multi-mode fiber segments in Gigabit networks.



Product Summary & Benefits:

Today's networks utilize a variety of fiber cables to meet the demands of bandwidth and cable distances. The MC-3000 series specifically addresses these needs by transparently converting multi-mode fiber into single mode fiber cable in one small high performance device. Now, network designers can accommodate different fiber cables to suit specific networking requirements.

The MC-3000 series can accommodate FDDI, Fast Ethernet and Gigabit without any drop in performance. They can handle any protocol between 1Mbps and 1000Mbps. A single to single mode and multi to multi-mode version is also available for increased cable distances.

Expands the Size of an Existing Network - provides fiber connectivity to Gigabit segments that allows for even further networking expansion between extended workgroups. They offer building-to-building connectivity without the need to employ expensive and MIS intensive routers.

Enhances the Distance between Networking Devices - connecting the MC-3000 to fiber segments can further extend distances of up to 140,000 meters between networking nodes. This can be achieved by a direct connection between the converters and a fiber based networking device.

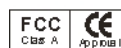
Cabling Flexibility - put different fiber cabling anywhere within a network. Their compact size allow the converters to be easily deployed in any narrow desktop location, or used in wall-mount installation. Several converters can be simultaneously installed by using the MC-16000C-12 12-slot 19" rack-mount chassis or MC-16000C-4 4-slot converter chassis.

Main Features:

- ◆ Complies with IEEE 802.3z.
- ◆ Extended distances up to 80km (single to single mode)
- ◆ Compatible with all other Gigabit devices
- ◆ Available with SC and WDM connectors
- ◆ LEDs for link (LNK) to easily monitor network status
- ◆ External and internal power supply options
- ◆ FCC Class A & CE approved
- ◆ RoHS compliant

Quick Reference

Connector#	Con.1	Con.2
Type	SC	SC
Protocol	Gigabit (SX)	Gigabit (LX)
Cable Type	Fiber	Fiber
Distance		
Multi-mode	FD	220 m
Multi-mode	HD	500 m
Single Mode	FD	Not Re d'
Single Mode	HD	70 km
Single Mode	HD	Not Re d'
Bandwidth		
Full Duplex(FD)	2 Gbps	2 Gbps
Half Duplex(HD)	1 Gbps	1 Gbps



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Specifications:

Standard:	IEEE 802.3z	Delay:	Less than 5 Bit
Connector:	SC and WDM connectors	Power:	Voltage: AC voltage to 12V DC 0.8A power adapter
Wavelength:	850nm/1300nm		Frequency: 47Hz to 63 Hz
Cable:	Multi-mode 62.5/125 Microns 50/125 Microns	Temperature:	Operating: 0°C to 50°C Storage: -20°C to 70°C
Max. Distance:	Fiber: 220 meters (Multi-mode SX 62.5/125) 500 meters (multi-mode LX 50/125) 10,000 meters (single mode) 40,000 meters (single mode) 80,000 meters (long haul single mode)	Humidity:	Operating: 10% to 80%RH Storage: 5% to 90%RH
Unit LED:	PWR: Illuminated for normal operation LNK: Illuminated when receiving link pulses from compliant devices	Emissions:	FCC Part 15 of Class A & CE approved
		Dimensions:	109.2 x 73.8 x 23.4mm (LxWxH)
		Weight:	160g

Fiber Optic Data:

Product#	Cable Type(µm)	Connector Type	Wavelength	Min. TX PWR	Max. TX PWR	RX Sens.	Min. PWR Budget	Max. PWR Budget	Typical Distance
MC-3000MCMC	62.5/125	SC	850nm	-9.5 dBm	-4 dBm	-18 dBm	7.5 dB	14 dB	550m
	62.5/125	SC	850nm	-9.5 dBm	-4 dBm	-18 dBm	7.5 dB	14 dB	550m
MC-3000MCSC	62.5/125	SC	850nm	-9.5 dBm	-4 dBm	-18 dBm	7.5 dB	14 dB	550m
	9/125	SC	1310nm	-9.5 dBm	-3 dBm	-20 dBm	10.5 dB	23 dB	10km
MC-3000SCSC	9/125	SC	1310nm	-9.5 dBm	-3 dBm	-20 dBm	10.5 dB	17 dB	10km
	9/125	SC	1310nm	-9.5 dBm	-3 dBm	-20 dBm	10.5 dB	17 dB	10km
MC-3000SCSC-40	9/125	SC	1310nm	-9.5 dBm	-3 dBm	-20 dBm	10.5 dB	17 dB	10km
	9/125	SC	1550nm	-6 dBm	0 dBm	-23 dBm	17 dB	23 dB	40km
MC-3000SCSC-80	9/125	SC	1310nm	-9.5 dBm	-3 dBm	-20 dBm	10.5 dB	17 dB	10km
	9/125	SC	1550nm	-5 dBm	0 dBm	-23 dBm	18 dB	23 dB	80km

Note: Fiber optic data specifications are accurate at time of printing and are subject to change without prior notice.

Applications:

The following illustrates typical applications for the MC-3000 series. The actual distances will depend on several factors including the quality of cables used and the terminal equipment employed.

Ordering Information:

MC-3000MCMC: 550m

Gigabit Multi-mode SX to Multi-mode LX Converter (SC/SC)

MC-3000MCSC: 10km

Gigabit Multi-mode SX to Single Mode LX Converter (SC/SC)

MC-3000-SCSC: 10km

Gigabit Single Mode LX to Single Mode LX Converter (SC/SC)

MC-3000SCSC-40:

Gigabit Single Mode LX to Single Mode LX Converter (SC/SC, 40km)

MC-3000SCSC-80:

Gigabit Single Mode LX to Single Mode LX Converter (SC/SC, 80km)

Rack mount chassis available

MC-1600C-4 4 Bay

MC-1600C-12 12 Bay

