

MC-300SC-MM/SM 100Base-FX Multi-mode to Single Mode Converter

Introduction:

The MC-300 series has been specifically design to address the needs of network systems employing single and multi-mode fiber cable environments.

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

Added flexibility is available with ST and SC connectors. In addition, we also offer single to single and multi to multi-mode converters.



Product Summary & Benefits:

Today's networks utilizes a variety of fiber cables to meet the demands of bandwidth and cable distance. The MC-300 series specifically addresses these needs by transparently converting multi-mode fiber into single mode fiber cable in one small high performance device. Now, the network designer can accommodate different fiber cables to suit specific requirements while still being able to transcend the physical differences in cable specifications.

The MC-300 series can accommodate FDDI and Fast Ethernet without any drop in performance. They can handle any protocol between 100Mbps and 155Mbps. A single to single mode and multi to multi-mode version is available for increased cable distances.

Expands the Size of an Existing Network - provides fiber connectivity to Fast Ethernet segments which allows for even further networking expansion between extended workgroups. It offers building to building connectivity without the need to employ expensive and MIS intensive routers.

Enhances the Distance between Networking Devices - connecting the MC-300 series to fiber segments can further extend distances of up to 120km with long haul single mode fiber connector between networking nodes. This can be achieved by a direct connection between the converter and a fiber based networking device.

Cabling Flexibility - the MC-300 allows you to install fiber cabling anywhere within a Fast Ethernet network topology without having to replace the existing copper-based. Its compact modular design facilitates deployment equally well in a narrow desktop location, wall-mount, or as a multi-unit configuration based on the MC-1600C-12 12-slot standard 19" rack-mount chassis or MC-1600C 4-slot rack-mount chassis. Plus, connecting the MC-300SC-MM/SM media converters to a fiber segment extends distances of up to 80,000 meters between networking nodes.

Main Features:

- ◆ Complies with IEEE 802.3u 100Base-FX standard
- ◆ Compatible with all other 100Base-FX devices
- ◆ Extends distances up to 60km (long haul single mode to multi-mode)
- ◆ Available with SC and ST connectors
- ◆ Status LEDs for easy monitoring of network status
- ◆ External and internal power supply options
- ◆ FCC Class A & CE approved RoHS compliant

Quick Reference

Connector #	Con.1	Con.2
Type	ST or SC	SC
Protocol	100Base-FX	100Base-FX
Cable Type	Fiber	Fiber
Distance		
Multi-mode	FD	2,000 m
Multi-mode	HD	412 m
Single Mode	FD	60,000 m
Single Mode	HD	Not Recommended
Bandwidth		
Full Duplex (FD)	200 Mbps	200 Mbps
Half Duplex (HD)	100 Mbps	100 Mbps

Based on 1300nm Fiber, 850nm and 1550nm are also available upon special request



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Specifications:

Standard: IEEE 802.3u 100Base-FX
 Connector: 2 x fiber connectors of combinations ST and SC
 Max. Distance: Fiber: 2,000 meters (multi-mode)
 80,000 meters (long haul single mode)
 per connection
 Unit LED: PWR: Illuminated when in normal operation
 LNK: Illuminated when receiving link pulses
 from a compliant device
 RCV: Illuminated or flashing when data
 packets are being transmitted /
 received

Delay: Less than 21 Bit
 Power: Voltage: AC voltage to 12V DC 0.8A power adapter
 Frequency: 47Hz to 63Hz
 Temperature: Operating: 0°C to 50°C
 Storage: -20°C to 70°C
 Humidity: Operating: 10% to 80% RH
 Storage: 5% to 90% RH
 Emissions: FCC Part 15 of Class A & CE approved
 Dimensions: 109.2 x 73.8 x 23.4mm (LxWxH)
 Weight: 160g

Applications:

The following illustrates typical applications for the MC-300 series. The actual distance will depend on several factors including the quality of cables used and the terminal equipment employed.

Ordering Information:

MC-300SC-MM/SM

100Base-FX Multi-mode to Single Mode Converter (SC/SC)

Rack-mount chassis available

MC-1600C-4 4 Bay

MC-1600C-12 12 Bay

