

# MMC200 Series

## Fast Ethernet Fiber Mini Media and Rate Converters

### AT-MMC200/SC

10/100TX to 100FX/SC Fast Ethernet mini media converter with multi-mode SC fiber connector

### AT-MMC200/ST

10/100TX to 100FX/ST Fast Ethernet mini media converter with multi-mode ST fiber connector



### Overview

The Allied Telesis MMC200 Series of Fast Ethernet mini media converters leverages its smaller size to not only help the environment with a small carbon footprint, but also to save space in its working environment. Despite its compact size, the MMC200 Series delivers all the power and functionality of standard size media converters.

### Extend Networks

The MMC200 Series mini media converters are the ideal solution for upgrading a traditional 10Mbps Ethernet network or extending a 100Mbps Fast Ethernet network. The MMC200 Series is designed to extend the distance of a network by converting Fast Ethernet data between twisted pair and fiber-optic cabling. The MMC200 features a 100FX fiber port and a 100TX twisted-pair port. The fiber-optic port features an SC or ST connector (depending on the model). The twisted-pair port has an RJ-45 connector with a maximum operating distance of 100 meters (328 feet).

### VLAN Support

Many new backbone switch products now support the industry-standard IEEE 802.1Q specification for Virtual LANs (VLANs) that send extra-long data packets on the network. The MMC200 switches are fully compatible with these long packets, enabling them to be used in modern networks. Media converters not supporting this feature discard these extra long packets, making them unsuitable for modern networks.

### Small and Flexible

The smaller size and external power supply of the MMC200 Series allows these media converters to be used almost anywhere.

### Smart MissingLink (SML)

The SML feature allows the ports on the media converter to pass the Link status of their connections to each other. When the media converter detects a problem with a port — such as the loss of connection to a node — it shuts down the connection to the other port, thereby notifying the node that the connection has been lost. The Smart MissingLink™ (SML) feature monitors network connections and provides notification when network segments fail, allowing network managers to quickly identify the source and location of failed segments and minimize downtime.

### Smart Link Restoration

Smart Link restoration allows the devices, in cases of power failure, link loss or other interrupted service, to automatically restore the link without the need to restart/reset them.

### Power Saving

The MMC Series continues the Allied Telesis commitment to the environment with over 50% power savings.\* With just 1.7W of power usage, the MMC Series media converters are some of the most efficient in the market today.

\*Over previous models

## New Features

- ▶ Convert speed as well as media type
- ▶ 2K MAC address tables
- ▶ Store-and-forward switching mode
- ▶ Transparent to IEEE 802.1Q packets
- ▶ Auto Negotiation and Auto MDI/MDIX on 10/100 copper port
- ▶ Far End Fault on 100Mb Fiber
- ▶ 10K byte Jumbo packets
- ▶ Link/Activity LED per port
- ▶ Smart MissingLink
- ▶ Fixed SC/ST optics
- ▶ 12VDC power supply
- ▶ Wall-mountable using AT-MMCWLMT

## MMC200 Series | Fast Ethernet Fiber Mini Media and Rate Converters

MODEL	FIBER TYPE	FIBER OPTIC DIAMETER	OPTICAL WAVELENGTH	LAUNCH POWER (dBm)		RECEIVE POWER (dBm)			MAX DISTANCE
				Min	Max	Min	Typical	Saturation	
AT-MMC200/XX	MMF	62.5/125	1310 nm	-20	-14	-32	-34	-3	2 km

### Specifications

#### Status LEDs

Power

ON power  
OFF no power

SYS

ON System operating normally  
OFF System not operating normally  
Slow Blink fault condition

LAN fiber port (Left)

OFF no link is established  
ON link is established  
Blinking activity is detected

LAN copper port (Right)

OFF no link is established  
ON link is established  
Blinking activity is detected

#### Operational Characteristics

SML UP Smart Missing Link Enabled  
DOWN Smart Missing Link Disabled  
Copper Port UP Forced 100 FD  
DOWN Auto-Negotiation  
MAC address table 2k addresses  
Forwarding/filtering rate 148,880pps for 100Mbps  
14,880pps for 10Mbps  
Average Latency 3.8µsec (64 byte packet, 100Mbps full-duplex)

#### Physical Specifications

Dimensions 5.6 cm × 10.16 cm × 2.18 cm  
(W × D × H) 2.16 in × 4 in × 0.86 in  
Weight 6 oz

#### Power Characteristics

Power consumption 1.7W

#### Environmental Specifications

Operating temperature 0°C to 50°C (32°F to 122°F)  
Operating humidity 5% to 95% relative humidity (non-condensing)  
Storage temperature -15°C to 65°C (5°F to 149°F)  
Storage humidity 5% to 95% relative humidity (non-condensing)  
Altitude Up to 3048 m (10000 ft)

#### Electrical and Mechanical Approvals

Safety UL60950-1  
EN60950-1

Emissions (EMI) FCC Class A  
EN55022 Class A  
CISPR 22 Class A  
C-TICK  
VCCI

Immunity EN55024  
EN61000-3-2  
EN61000-3-3

### Ordering Information

#### AT-MMC200/SC-xx

10/100TX to 100FX/SC Fast Ethernet mini media converter with multi-mode SC fiber connector

#### AT-MMC200/ST-xx

10/100TX to 100FX/ST Fast Ethernet mini media converter with multi-mode ST fiber connector

Where xx =

60 for AC power supply, multi-region (US, UK, AU, EU)  
90 for AC power supply, US power cord, FED

#### Associated Components

##### AT-MMCR18

18-slot chassis for MMC Series media converters

##### AT-MMCWLMT-05

Wall mount for MMC Series media converters (5 pack)

##### AT-MMCWLMT-50

Wall mount for MMC Series media converters (50 pack)



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617-000542 Rev C