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

AT-MMC200/LC
10/100TX to 100FX/LC Fast Ethernet mini media converter with multi-mode LC 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, LC 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.

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/LC optics
- 12VDC power supply
- Wall-mountable using AT-MMCWLMT

*Over previous models

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

AT-MMC200/LC-xx
10/100TX to 100FX/LC Fast Ethernet mini media converter with multi-mode LC 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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