MMC2000 Series
Gigabit Fiber Mini Media and Rate Converters

AT-MMC2000/SC
10/100/1000T to 1000SX/SC Gigabit mini media converter with multi-mode SC fiber connector

AT-MMC2000/ST
10/100/1000T to 1000SX/ST Gigabit mini media converter with multi-mode ST fiber connector

AT-MMC2000/LC
10/100/1000T to 1000SX/LC Gigabit mini media converter with multi-mode LC fiber connector

AT-MMC2000/SP
10/100/1000T to 1000X/SFP Gigabit mini media converter with SFP connector

Overview
The Allied Telesis MMC2000 Series of Gigabit 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 MMC2000 Series delivers all the power and functionality of standard size media converters.

Extend Networks
The MMC2000 Series mini media converters are the ideal solution for upgrading a traditional 100Mbps Ethernet network or extending a Gigabit network. The MMC2000 Series is designed to extend the distance of a network by converting Gigabit data between twisted pair and fiber-optic cabling. The MMC2000 features a 1000X fiber port and a 10/100/1000T twisted-pair port. The fiber-optic port features an SC , ST, LC, or SFP 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 MMC2000 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 MMC2000 Series allows them to be used almost anywhere.

Smart MissingLink (SML)
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 10/100/1000 copper port

▶ EEE support on copper port

▶ Far End Fault on 100Mb Fiber

▶ 10K byte Jumbo packets

▶ Link/Activity LED per port

▶ Smart MissingLink

▶ Fixed SC/ST/LC or SFP (100MB or 1000MB) optics

▶ 12VDC power supply

▶ Wall-mountable using AT-MMCWLMT

▶ Locking power supply jack to prevent accidental power disconnects

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MODEL	FIBER TYPE	FIBER OPTIC DIAMETER	OPTICAL WAVELENGTH	LAUNCH POWER (dBm)		RECEIVE POWER (dBm)			MAX DISTANCE
				Min	Max	Min	Typical	Saturation	
AT-MMC2000/XX	MMF	50/125	850 nm	-9.5	-4	-17	-20	-3	500 m
	MMF	62.5/125	850 nm	-9	-4	-17	-20	-3	220 m

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
SW1 (left):   LOW = Link Test
               HIGH = Smart MissingLink
SW2 (right):   LOW = auto-negotiation (normal operation)
               HIGH = disable auto-negotiation on copper
                      port - force 100Mbps Full Duplex
MAC address table 2k addresses
Forwarding/filtering rate   1,488,000 for 1000Mbps
                             148,880pps for 100Mbps
                             14,880pps for 10Mbps
Latency 14.3µsec (64 byte packet,100Mbps full-duplex)

Physical Specifications
Dimensions   5.49 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   140mA@12V typical

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   -30°C to 70°C (-22°F to 158°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

Ordering Information

AT-MMC2000/SC-xx
10/100/1000T to 1000SX/SC Gigabit mini media converter with multi-mode SC fiber connector

AT-MMC2000/ST-xx
10/100/1000T to 1000SX/ST Gigabit mini media converter with multi-mode ST fiber connector

AT-MMC2000/LC-xx
10/100/1000T to 1000SX/LC Gigabit mini media converter with multi-mode LC fiber connector

AT-MMC2000/SP-xx
10/100/1000T to 100/1000x SFP Gigabit mini media converter with SFP 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)