

MMC3000 Series

Copper to SFP Managed Mini Media and Rate Converters, I-Temp



Mini media converters offer a smaller size and smaller carbon footprint to help the environment and save space in the office.

Overview

The Allied Telesis MMC3000 Series of 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 MMC3000 Series delivers all the power and functionality of standard size media converters.

Extend Networks

The MMC3000I/SP is available with an SFP connector capable of multi-mode or single-mode fiber connectivity, depending on the optic used (sold separately). This allows the network administrator to use it over a wide range of distances, from very short to 80km.

The twisted-pair copper port has an RJ-45 connector supporting 10Mbps, 100Mbps or 1000Mbps, with a maximum operating distance of 100 meters (328 feet).

Basic Management

The Basic Management allows you to check status, enable/disable ports & flow control, check statistics and change port settings.

Small and Flexible

The smaller size and external power supply of the MMC3000 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

The MMC3000I is available with an SFP connector capable of multi-mode or single-mode fiber connectivity, depending on the optic used (sold separately). This allows the Network admin to go from very short distances to 80k.

The twisted-pair copper port has an RJ-45 connector supporting either 10Mb, 100Mbps or 1000Mbps, with a maximum operating distance of 100 meters (328 feet).

Power Saving

The MMC3000 Series continues the Allied Telesis commitment to the environment with over 50% power savings.¹ With just 1.7W of power usage, the MMC3000 Series media converters are some of the most efficient in the market today.

Link Test

The link test is a fast and easy way for you to test the connections between the media converter ports and the connected end nodes. If a network problem occurs, you can perform a link test to determine which port is experiencing a problem, and focus your troubleshooting efforts on the right cable or end node.

¹ Over previous models

Key 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 copper port
- EEE support on copper port
- Far End Fault on Fiber
- 10K byte Jumbo packets
- Link/Activity LED per port
- Smart MissingLink
- 12VDC power supply
- Wall-mountable using MMCWLMT
- Locking power supply jack to prevent accidental power disconnects
- Available in Trade Agreement Act (TAA) models

Basic Management Features

- Status
- Port state enable/disable
- Link status up/down
- Speed/Duplex
- Flow control enable/disable

Port settings

- enable/disable
- Speed/Duplex
- Flow control

Statistics

- Bytes RX/TX
- Packets RX/TX
- CRC RX/TX

SPECIFICATIONS

Status LEDs

Power	
ON	Power
OFF	No power
SYS	
ON	System operating normally
OFF	System not operating normally
Blinking	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 disabled
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	5.6 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	140mA@12V typical
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Environmental Specifications

Operating temperature	-25°C to 70°C (-13°F to 158°F)
Operating humidity	5% to 95% relative humidity (non-condensing)
Storage temperature	-40°C to 70°C (-40°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-MMC3000I/SP-xx	10/100/1000T to 100/1000X SFP I-Temp Media and Rate Converter
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Where xx = 960 for AC PSU, Multi Region (US, UK, AU, EU), TAA

Associated Components	
AT-MMCR18	18-slot chassis for MMC3000 Series media converters
AT-MMCWLMT-005	Wall mount for MMC3000 Series media converters (5 pack)
AT-MMCTRAY6	1RU rack-mount tray for up to 6 MMC3000 Series media converters
SFP Modules	
AT-SPTX/I	100 m, 10/100/1000T SFP, RJ-45, I-Temp
AT-SPSX/I	550 m, 1000SX SFP, LC, MMF, 850 nm, I-Temp
AT-SPSX/E	550 m, 1000SX SFP, LC, MMF, 850 nm, Ext. Temp

AT-SPEX/E	2 km, 1000EX SFP, LC, MMF, 1310 nm, Ext. Temp
AT-SPLX10/I	10 km, 1000LX SFP, LC, SMF, 1310 nm, I-Temp
AT-SPLX10/E	10 km, 1000LX SFP, LC, SMF, 1310 nm, Ext. Temp
AT-SPLX40/E	40 km, 1000LX SFP, LC, SMF, 1310 nm, Ext. Temp
AT-SPBD10	10 km, 1G BiDi SFP, LC, SMF
AT-SPBD20-xx/I	20 km BiDi GbE SMF SFP, I-Temp
AT-SPBD40-xx/I	40 km BiDi GbE SMF SFP, I-Temp

All Allied Telesis standard temp SFP's