

MC100 Series

Fast Ethernet Media Converters



Fiber connections

The Allied Telesis range of Fast Ethernet media converters provides a complete family of conversion devices, allowing users to extend the size of UTP networks with the use of fiber cabling. Supporting both SC and ST fiber connectors, MC100 Series converters can be used to extend networks with up to two km of multi-mode fiber or 40 km of single-mode fiber.

Simple installation

All the media converters feature auto MDI/MDI-X, allowing the converter to be connected to either a PC, hub or switch with a simple UTP cable. The media converters also allow the installer to test the integrity of fiber connection, by forcing the converters to communicate over the fiber cable. This "Link Test" feature allows installers to check for cable faults without the need for expensive fiberoptic test equipment.

Standalone or rackmounted

Each small media converter is powered by an external power supply unit for use in standalone applications. Where multiple media converters are being used, up to 12 standalone devices can be inserted into a low-cost rackmount chassis, allowing all

the converters to be powered by a single internal power supply. In critical applications, a second load sharing internal power supply can be installed into the rackmount chassis.

Hassle-free Support

Allied Telesis Fast Ethernet media converters include free technical support, ensuring trouble-free installation.

Link test

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

$MissingLink^{TM}$

The MissingLink feature enables the two ports on the media converter to pass the "Link" status of their connections to each other. When the media converter detects a loss of connection to an end node, the media converter shuts down the connection to the other port, thus notifying the end node that the connection has been lost.

Key Features

- ► Half- and full-duplex operation
- ► Transparent to IEEE 802.1Q packets
- ► Rackmountable using optional MCR12, TRAY4 or TRAY1 chassis
- ► Wallmountable using WLMT
- ► Auto MDI/MDI-X
- ▶ MissingLink
- ▶ Link test
- ► RoHS compliant

PRODUCT	PORT TYPE (CONNECTOR)	CABLE DISTANCE	OPTICAL Frequency	LAUNCH POWER (dBm)			RECEIVE POWER (dBm)		
				MAXIMUM	AVERAGE	MINIMUM	MINIMUM SENSITIVITY	TYPICAL SENSITIVITY	SATURATION
MC101XL	100FX MMF (ST)	2 km	1310 nm	-14.0	-16.8	-19.0	-31.8	-34.5	-14.0
MC102XL	100FX MMF (SC)	2 km	1310 nm	-14.0	-16.8	-19.0	-31.8	-34.5	-14.0
MC103XL	100FX SMF (SC)	15 km	1310 nm	-8.0	-11.5	-15.0	-31.0	-31.0	-8.0
MC103LH	100FX SMF (SC)	40 km	1310 nm	0.0	-3.0	-5.0	-35.0	-38.0	0.0

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Specifications

Status Indicators

Power Indicates power is applied to

the converter

Link (2) Indicates a valid receive link

exists

Activity (2) Indicates TX/RX on the port

ML Indicates MissingLink

Switches

ML - link Test Enable MissingLink
A/N Enable auto-negotiation

Packet Transmission Characteristics

Round trip delay 0.4µs maximum Bit Error Rate (BER) <10-12

Power Characteristics

External power supply 120V AC, 60Hz (US model)

240V AC, 50Hz

(European models)

Input supply voltage 12vDC
Max current 500mA
Power consumption 6W

Environmental Specifications

Operating temperature 0°C to 40°C (32°F to 104°F)
Relative humidity 5% to 95% (non-condensing)
Storage temperature 0 to 10,000 feet

Physical Characteristics

Safety compliant

Dimensions (W x D x H) 10.5 cm x 9.5 cm x 2.5 cm

(4.12 in x 3.75 in x 1.0 in)

Weight: 294 g (10.4 oz)

Electrical/Mechanical Approvals

EMC FCC Class A (MC104XL)
EMC FCC Class B

UL-Cul, CSA/CSA NRTL TUV

CE compliant

Ordering Information

AT-MC101XL-xx

UTP to multi-mode ST (2 km) fiber

AT-MC102XL-xx

UTP to multi-mode SC (2 km) fiber

AT-MC103XL-xx

UTP to single-mode SC (15 km) fiber

AT-MC103LH-xx

UTP to single-mode long-haul SC (40 km) fiber

Where xx = 10 for US power adapter

20 for European power adapter 30 for UK power adapter 40 for Australian power adapter

60 for multi-region power adapter, APAC only 90 for NA power adapter, TAA compliant

Associated Products

AT-TRAY1

Rackmounting tray for one media converter

AT-TRAY4

Rackmounting tray for up to four media converters

AT-WLMT

Wallmount bracket for one media converter

AT-MCR12

12-slot AC/DC powered chassis for media converters



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