

# MC100 Series

# **Fast Ethernet Media Converters**

#### AT-MC101XL

TX to FX Fast Ethernet media converter with multi-mode ST fiber connectors

#### AT-MC102XI

TX to FX Fast Ethernet media converter with multi-mode SC fiber connectors

#### AT-MC103XL

TX to FX Fast Ethernet media converter with single-mode 15 km SC fiber connectors

#### AT-MC103LH

TX to FX Fast Ethernet media converter with single-mode 40 km SC fiber connectors

#### AT-MC104XL

FX multi-mode to FX single-mode with SC fiber connectors

#### **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 multimode 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 fiber-optic 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

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 AT-MCR12, AT-TRAY4 or AT-TRAY1 chassis
- ► Wallmountable using AT-WLMT
- ► Auto MDI/MDI-X
- ▶ MissingLink
- ► Link test
- ► RoHS compliant

# MC100 Series | Fast Ethernet Media Converters

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

# **Technical Specifications**

# Status Indicators

Indicates power is applied to Power:

the converter

Link (2): Indicates a valid receive link

exists

Activity (2): Indicates TX/RX on the port Indicates full-duplex operation

(MC104XL only) 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**

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

240V AC, 50Hz (European models)

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

#### **Environmental Specifications**

0°C to 40°C (32°F to 104°F) Operating temperature Relative humidity 5% to 95% (non-condensing) Storage temperature -20°C to 80°C (-4°F to 176°F)

0 to 10,000 feet Operating altitude

# **Physical Characteristics**

10.5 cm x 9.5 cm x 2.5 cm Dimensions (W x D x H) (4.12 in x 3.75 in x 1.0 in)

Weight: 294 q (10.4 oz)

#### **Electrical/Mechanical Approvals**

FCC Class A (MC104XL) EMC FCC Class B

UL-Cul, CSA/CSA, NRTL, TUV, Safety compliant

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

#### AT-MC104XL-xx

Multi-mode fiber to single-mode SC (15km) 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

Disponible chez NetWalkerStore - Livré 24/48h https://www.netwalkerstore.com/PBSearch.asp?q=AT-MC10



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