

MC100PCI Series

Fast Ethernet Media Converters—PCIx Based

The Allied Telesis AT-MC102XLPCIx TX to FX Fast Ethernet media converters feature multi-mode SC fiber connectors with either a PCI or PCI Express bus.

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 SC fiber connectors. These converters can be used to extend networks with up to 2 km of multi-mode fiber.

Simple Installation

The Allied Telesis MC100PCI Series 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 connections, 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.

Hassle-Free Support

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

Key Features

- ▶ Half- and full-duplex operation
- ▶ Transparent to IEEE 802.1Q packets
- ▶ Jumbo packets
- ▶ Auto MDI/MDI-X
- ▶ Link test
- ▶ RoHS compliant
- ▶ PCIe bus
- ▶ Half- and full-height brackets included (half-height attached)

MODEL	PORT TYPE (CONNECTOR)	CABLE DISTANCE	OPTICAL FREQUENCY	LAUNCH POWER (dBm)			RECEIVE POWER (dBm)		
				MAXIMUM	AVERAGE	MINIMUM	MINIMUM SENSITIVITY	TYPICAL SENSITIVITY	SATURATION
MC100PCI Series	100FX MMF (2 km)	2 km	1310 nm	-14.0	-16.8	-19.0	-31.8	-34.5	-14.0

Specifications

Status Indicators

One per port
Link/Activity Transmit
 Receive

Jumpers

A/N Enable auto-negotiation

Packet Transmission Characteristics

Propagation delay 0.4 μ s maximum
Bit Error Rate (BER) <10⁻¹²

Power Characteristics

Input supply voltage 3.3 V
Max current 450mA
Power consumption 1.5 Watts
Power is taken directly from the PCI or PCIe bus — no other cables needed.

Twisted Pair Interface

	Min.	Typical	Max.
UTP differential			
Output voltage	950mv	980mv	1050mv
Overshoot voltage		4%	5%
Single amplitude			
Symmetry	0.98	1.0062	1.02
Rise and fall time			
Rise	3.0 ns	4.6 ns	5.0 ns
Fall	3.0 ns	4.2 ns	5.0 ns
Symmetry	0.4 ns	0.5 ns	

Physical Characteristics

Dimensions (W x H) 12.5 cm x 6.4 cm
 4.9 in x 2.5 in
Weight 62 g / 2.2 oz

Environmental

Operating temperature 0°C to 40°C (32°F to 105°F)
Storage temperature -20°C to 80°C (-4°F to 176°F)
Relative humidity 5% to 95% non-condensing
Operating altitude 0 to 10,000 ft
RoHS/China RoHS compliant

Approvals

EMC FCC Class B
Safety compliant UL-Cul, CSA/CSA, NRTL, TUV, CE compliant

Ordering Information

AT-MC102XLPCI

UTP to multi-mode SC (2 km) fiber, PCI bus

AT-MC102XLPCIe

UTP to multi-mode SC (2 km) fiber, PCIe bus