



PEATSA

Lauro Aguirre No. 32-203 . Col. Agricultura . México, D.F. 11360
www.peatsa.com Tels. 5342-1586 . 5341-8757



AT-MC102XL-10

AT-MC102XL

TX to FX Fast Ethernet media converter with SC fibre connectors

Media Converters

AT-MC100XL Series, Fast Ethernet Media Converters

Fibre connections

The Allied Telesyn 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 fibre cabling. Supporting both SC and ST fibre connectors, these converters can be used to extend networks with up to 2km of fibre.

Auto-negotiation and MissingLink™

When connecting media converters to autonegotiating Fast Ethernet switches, these media converters will automatically connect the link in either Full or Half-Duplex mode, allowing the link to be established with the greatest bandwidth. Alternatively, the MissingLink feature allows accurate reporting to network management systems as well as allowing devices with redundant link capability to be inter-connected with these media converters, as a failure in one fibre link will be signalled to the switch, allowing the second link to become active.

Simple installation

Both media converters feature an internal MDI/MDI-X switch, 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 fibre connection, by forcing the converters to communicate over the fibre cable. This 'Link Test' feature allows installers to check for cable faults without the need for expensive fibre 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.



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Hassle free support

Allied Telesyn Fast Ethernet media converters have a lifetime warranty and free technical support, ensuring trouble-free installation.

Key features

- Half & full-Duplex operation
- Transparent to 802.1Q packets
- Rackmountable using optional AT-MCR12, TRAY4 or TRAY1 chassis
- MDI/MDI-X
- MissingLink™
- Link Test

STATUS INDICATORS

Front Panel:

Power Indicates power is applied to the converter

Link (2) Indicates a valid receive link exists

Receive (2) Indicates valid data being received by converter

Normal/Test Fibre test or normal operation

Port Type (Connector)	Cable Distance	Optical Frequency	Launch Power (dBm)			Receive Power (dBm)		
			Max.	Avg.	Min.	Min. Sensitivity	Typical Sensitivity	Saturation
10T UTP Copper	100m							
102 Coax Copper	185m							
10FL MMF	2km	850nm	-10.0	-12.0	-15.0	-41.4	-43.0	-7.6
10FL SMF	15km	1310nm	-17.0	-21.0	-23.0	-41.5	-45.0	-14.0
100TX UTP Copper	100m							
100FX MMF	2km	1310nm	-14.0	-16.8	-19.0	-31.8	-34.5	-14.0
100SX MMF	300m	850nm	-10.0	-12.0	-15.0	-41.4	-43.0	-7.6
100FX SMF (15km)	15km	1310nm	-8.0	-11.5	-15.0	-31.0	-31.0	-8.0
100FX SMF (40km)	40km	1310nm	0.0	-3.0	-5.0	-35.0	-38.0	0.0
100FX SMF (75km)	75km	1310nm	0.0	-2.0	-4.0	-37.0	-37.0	-3.0
100FX SMF (100km)	100km	1550nm	0.0	-1.5	-3.0	-37.0	-37.0	-3.0
1000T UTP Copper	100m							
1000SX MMF	220-550m	850nm	-4.0	-7.0	-10.0	-16.0	-16.0	0.0
1000LX SMF (10km)	10km	1310nm	-3.0	-6.3	-9.5	-20.0	-20.0	-3.0
1000LX SMF (20km)	20km	1310nm	0.0	-1.5	-3.0	-24.0	-24.0	-3.0
1000LX SMF (50km)	50km	1550nm	0.0	-2.5	-5.0	-24.0	-24.0	-3.0
1000LX SMF (70km)	70km	1550nm	5.5	2.8	0.0	-24.0	-24.0	-3.0

PACKET TRANSMISSION CHARACTERISTICS

AT-8724XL 275,000 hrs. MTBF

AT-8748XL 172,000 hrs. MTBF



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TWISTED PAIR INTERFACE

UTP Differential Output

Voltage Typical Min Max

980mv 950mv 1050mv

Overshoot Voltage

Typical Max

4% 5%

Single Amplitude Symmetry

Typical Min Max

1.0062 0.98 1.02

Rise and Fall Time

Typical Min Max

Rise 4.6ns 3.0ns 5.0ns

Fall 4.2ns 3.0ns 5.0ns

Rise and Fall Time Symmetry

Typical Max

0.4ns 0.5ns

POWER CHARACTERISTICS

External Power Supply 100-240V AC,
50/60Hz +/- 3%

Input Power Supply 12vDC +/- 5%

Max Current .5

Power Consumption 6W

ENVIRONMENTAL SPECIFICATIONS

Operating Temp 0°C to 40C

Storage Temp. -20°C to 80°C

Relative Humidity 5% to 95% non-condensing

Operating Altitude 0 to 10,000 feet

PHYSICAL CHARACTERISTICS

Dimensions 10.5cm x 9.5cm x 2.5cm (4.12" x 3.75" x 1.0")

Weight 294g (10.4oz)

ELECTRICAL/MECHANICAL APPROVALS

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

Ordering information

AT-MC102XL-xx

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