



## AT-MC1000 SERIES

### 1000Mbps Gigabit Ethernet Media Converters

#### AT-MC1001/1-xx

Gigabit Ethernet media converter;  
SX to LX, fiber SC, 10km

#### AT-MC1001/2-xx

Gigabit Ethernet media converter;  
SX to LX, fiber SC, 20km

#### AT-MC1001/3-xx

Gigabit Ethernet media converter;  
SX to LX, fiber SC, 40km

#### AT-MC1001/4-xx

Gigabit Ethernet media converter;  
SX to LX, fiber SC, 70km

#### EXTEND THE DISTANCE OF GIGABIT

The Allied Telesyn AT-MC1001 family of Gigabit Ethernet Media Converters enables users to extend the size of their Gigabit network by converting 1000SX ports to 1000LX, a technology that can increase the maximum fiber cable distance to 70km.

Most Gigabit devices are used as the core of network infrastructure. Because the reliability of this equipment is mission critical, designing networks with built-in resilience is paramount.

#### MISSINGLINK™

The MissingLink™ feature allows the ports on the media converter to convey the status of their links. When the media converter detects a problem with a port—such as the loss of connection to a node—it shuts down the connection, thereby notifying the node that the connection has been lost. The value of this network monitoring and fault notification is that some hubs and switches are configured to take action in the event of the loss of connection on a port. In some cases, the unit is configured either to seek a redundant path or alert the network administrator of the problem.

#### STAND-ALONE OR RACK-MOUNTED

Every small media converter is powered by an external power supply unit for use in stand-alone applications. When multiple media converters are in use, a low cost rack-mount chassis can accommodate up to 12 stand-alone devices, enabling a single internal power supply to power all the converters. In critical applications, the rack-mount chassis can accommodate a second load-sharing internal power supply.

#### HASSLE FREE SUPPORT

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

#### KEY FEATURES

- Support for multi-mode & single-mode fiber
- Full-Duplex
- Rack-mountable using optional AT-MCR12, TRAY4, or TRAY1 chassis
- Reach extended distances up to 70km

## AT-MC1000 SERIES

### 1000Mbps Gigabit Ethernet Media Converters

#### STATUS INDICATORS

##### System LEDs:

Power	Indicates power is applied to the converter
Normal/Test	Fiber test or normal operation

##### Per Port LEDs:

Link	Indicates a valid receiver link exists
Receive	Indicates converter is receiving validation

#### FEATURES

MissingLink™	Allows link test signal to propagate from one port to the other
Text Operation	Allows both ports to transmit and receive data (independently) in order to check fiber cable integrity
Half/Full Duplex Jumper	Allows media converter to operate in both Half and Full Duplex net works

#### POWER CHARACTERISTICS

External Power Supply	100-240vAC, 50/60Hz +/- 3%
Input Supply Voltage	12vDC +/- 5%
Max Current	.5
Power Consumption	6W

#### ENVIRONMENTAL SPECIFICATIONS

Operating Temp.	0°C to 40°C
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-MC1001/1-xx  
Gigabit Ethernet media converter,  
SX to LX, fiber SC, 10km

AT-MC1001/2-xx  
Gigabit Ethernet media converter,  
SX to LX, fiber SC, 20km

AT-MC1001/3-xx  
Gigabit Ethernet media converter,  
SX to LX, fiber SC, 40km

AT-MC1001/4-xx  
Gigabit Ethernet media converter,  
SX to LX, fiber SC, 70km

Where xx = 10 AC Power supply, US power cord  
= 20 AC Power supply, European power cord  
= 30 AC Power supply, UK power cord  
= 40 AC Power supply, Australian power cord

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 (40km)	40km	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

#### ABOUT ALLIED TELESYN

Allied Telesyn was founded in 1987 with the goal of producing reliable, standards-based networking products. Focused on Ethernet/IP solutions geared to applications, Allied Telesyn offers access-edge products like switches, fiber/copper MAPs, and CPE. We're also a leading global manufacturer of media converters, unmanaged switches, and NICs. Our customer-driven approach has made Allied Telesyn the ideal choice for IT professionals looking for high-quality, feature-rich network solutions at a lower price. Allied Telesyn – It's Our Network, Too.

[www.alliedtelesyn.com](http://www.alliedtelesyn.com)

#### USA Headquarters

19800 North Creek Pkwy, Suite 200, Bothell, WA 98011, USA  
Tel 800.424.4284 Fax 425.481.3895

#### European Headquarters

Via Motta 24, 6830 Chiasso, Switzerland

(Corporate)

Tel (+41) 91 697.69.00 Fax (+41) 91 697.69.11

(European Sales)

Tel (+39) 02 414.112.1 Fax (+39) 02 414.112.61