



PEATSA

Lauro Aguirre No. 32-203 . Col. Agricultura . México, D.F. 11360
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AT-MC1004

Media Converters

AT-MC1000 Series
Gigabit Ethernet Media Converters

AT-MC1004

1000T to 1000SX (SC) Gigabit Ethernet media converter 220-550m

Long reach gigabit ethernet

Allied Telesyn's AT-MC1004 and AT-MC1005 series of standalone or rackmountable Gigabit Ethernet media converters extend the reach of Gigabit Ethernet networks through the use of multi-mode and single-mode fiber-optic cabling. By converting 1000T copper connections to 1000SX or LX connections, these Gigabit Ethernet media converters can extend segment lengths up to 70km

Cost-effective migration

Although the provisioning of Gigabit Ethernet connections is becoming relatively inexpensive, thanks in part to the availability of lower-cost copper Gigabit network adapters, the distance limitations of copper cabling make fiber segments a necessity in most networks. Small, comparatively inexpensive copper to fiber Gigabit Ethernet media converters present a simple and very cost-effective way of connecting Gigabit Ethernet LANs over extended distances.

Simple installation

To aid installation these media converters support an auto-sense MDI/MDIX port, allowing the media converter to connect directly with either a switch, PC adapter, or other Gigabit Ethernet device, using a standard cable.

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Port Type (Connector)	Cable Distance	Optical Frequency	Launch Power (dBm)			Receive Power (dBm)		
			Max.	Avg.	Min.	Min. Sensitivity	Typical Sensitivity	Saturation
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

Standalone or rackmount operation

The AT-MC1004 and AT-MC1005 series Gigabit Ethernet media converters are powered by an external power supply for use in standalone applications. Where multiple media converters are used, up to 12 standalone devices can be inserted into the low-cost AT-MCR12, AT-TRAY1 or AT-TRAY4 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.

About Allied Telesyn

Allied Telesyn leads the world in network technologies for the access edge. Since the company's inception in 1987, Allied Telesyn has been developing IP-based network products for use in video, voice and data networks at the metro edge, in education, government agencies and across the enterprise. Allied Telesyn's access, aggregation and core transport technologies range from simple Ethernet adapters, hubs and media converters to robust multi-layer Gigabit Ethernet switches and routers, wireless systems, DTM and WDM transport solutions for delivering real-time voice, video and data. Allied Telesyn's comprehensive support and professional service programs are suited to meet the growing demands of today's switched broadband infrastructures.

Key features

- Standalone or rackmountable into the AT-MCR12 chassis
- Reach extended distances up to 70km
- Auto-sense MDI/MDIX
- Full-Duplex operation
- Cost effective migration from Gigabit copper to Gigabit fiber
- Limited lifetime warranty (1 year on power supply)

AT-MC1000 Series, Gigabit Ethernet Media Converters



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STATUS INDICATORS

System LEDs:

Power Indicates power is applied to the converter

Per Port LEDs:

Link Indicates a valid receiver link exists

Receive Indicates validation being received by converter

POWER CHARACTERISTICS

Input Voltage:

External Power

Supply 100-120/220-240vAC,
50/60Hz +/-3%

Input Supply Voltage 12vDC +/-5%

Max Current .5A

Power Consumption 6W

ENVIRONMENTAL SPECIFICATIONS

Operating Temp. 0°C to 40°C

Storage Temp. - 20°C to 80°C

Relative Humidity 5% to 95% noncondensing

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

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