

AT-MC10 Series, Ethernet Media Converters

AT-MC13, UTP to fiber ST Ethernet media converter

AT-MC14, UTP to fiber SC Ethernet media converter

AT-MC15, UTP to BNC Ethernet media converter

AT-MC16, UTP to fiber ST single-mode Ethernet media converter

KEY FEATURES

Half and Full Duplex operation

(Excluding AT-MC15, Half Duplex only)

Fits the AT-MCR12 rackmount chassis

MDI/MDIX

MissingLink™

(Excluding AT-MC15, N/A)

Link Test

(Excluding AT-MC15, N/A)

FIBER CONNECTIONS

The Allied Telesyn range of 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 all major fiber connectors, with support for both multi and single-mode fiber, these converters can be used to extend networks with up to 15km of fiber.

AUTO-NEGOTIATION AND MISSINGLINK™

When connecting media converters to auto-negotiating Fast Ethernet switches, these media converters (except the AT-MC13 & AT-MC14) will automatically connect the link in either Ethernet Full or Half-Duplex mode, allowing the link to be established with the greatest bandwidth. In addition, the Missing Link feature (except AT-MC15) allows switches or hubs with redundant link capability to be inter-connected with these media converters, as a failure in one fiber link will be signalled to the switch, allowing the second link to become active.

SIMPLE INSTALLATION

All the media converters with a UTP connection feature an internal MDI/MDIX 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 the 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 fiberoptic 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 rack-mount 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, INC.

Allied Telesyn, Inc. 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.

SERVICE & SUPPORT

Allied Telesyn provides value-added support services for its customers under its Net.Cover™ programs. For more information on Net.Cover™ support programs available in your area, contact your Allied Telesyn sales representative or visit our website.

www.alliedtelesyn.com

MEDIA CONVERTERS

 **Allied Telesyn**
Simply connecting the IP world

AT-MC10 Series, Ethernet Media Converters

STATUS INDICATORS

Front Panel:	
Power (PWR)	Indicates power is applied to the converter
Link (LNK) (2)	Indicates a valid receive link exists
Receive (REC) (2)	Indicates valid data being received by converter
Normal (NML)	Indicates product is working in normal mode
On Line	Indicates BNC port is connected to an active 10Base2 segment (MC15 only)
Collision (COL)	Indicates BNC port is sensing a collision signal (MC15 only)

PACKET TRANSMISSION CHARACTERISTICS

Round Trip Delay	0.4 μ Maximum
Bit Error Rate (BER)	<10 ⁻¹²

TWISTED PAIR INTERFACE

Transmitter	Typical	Worst
Peak Differential Signal Amplitude	2.5v	2.2 to 2.8v
Transmitter Jitter	\pm 3.2ns	
Harmonics Content	27dB below fund.	
Common Mode	4v	
Output Voltage:		
Silence	0v	+50mv
Link Test Pulse	130ns	105 to 135ns
Output Impedance	100 Ω	85 to 115 Ω
UTP Length	100m	
Receiver:		
Receiver Threshold	-400mv	-300 to 585mv
Differential Noise	300mv	

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 Tempo.	-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

ORDERING INFORMATION

AT-MC13-xx

UTP to fiber media converter with ST fiber connectors

AT-MC14-xx

UTP to fiber media converter with ST fiber connectors

AT-MC15-xx

UTP to BNC Media Converter

AT-MC16-xx

UTP to fiber media converter with ST SingleMode fiber connectors

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

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