



AT-MC10 SERIES

Ethernet Media Converters

AT-MC13-xx

UTP to fiber media converter with ST fiber connectors, 2km

AT-MC14-xx

UTP to fiber media converter with SC fiber connectors, 2km

AT-MC15-xx

UTP to BNC Media Converter, 185m

AT-MC16-xx

UTP to fiber media converter with ST SingleMode fiber connectors, 15km

FIBER CONNECTIONS

Providing a complete family of conversion devices, Allied Telesyn's Ethernet media converters enable service providers to use fiber cabling to extend the size of UTP networks. Supporting all major fiber connectors—as well as both multi- and single-mode fiber—these converters can help extend networks with up to 15km of fiber.

AUTO-NEGOTIATION & MISSINGLINK™

When connected to auto-negotiating Fast Ethernet switches, the AT-MC15 and AT-MC16 media converters connect the link in either Ethernet full- or half-duplex mode, thereby establishing a link with the greatest-possible bandwidth.

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.

SIMPLE INSTALLATION

All the media converters with UTP connections feature an internal MDI/MDIX switch, enabling the converter to connect to a PC, hub, or switch with a simple UTP cable. The media converters can also test the integrity of connections by forcing data across the fiber cable—enabling installers to check for cable faults without the need for expensive fiber-optic test equipment.

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.

KEY FEATURES

- **Half- & Full-Duplex operation**
(Excluding AT-MC15, Half-Duplex only)
- **Rack-mountable using optional AT-MCR12, TRAY4, or TRAY1 chassis**
- **MDI/MDIX**
- **MissingLink™**
(Excluding AT-MC15, N/A)
- **Link Test**
(Excluding AT-MC15, N/A)

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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 converter is receiving valid data
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	± 3.2 ns	
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 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

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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

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.

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