



# PEATSA

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## AT-MC13-10

**AT-MC13**, UTP to fiber ST Ethernet media converter

### **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 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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## 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 $\mu$  Maximum

Bit Error Rate (BER) <10<sup>-12</sup>

## 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  $\Omega$  85 to 115  $\Omega$

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 Temo. -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