

# AT-MC13

## **Ethernet Media Converters**

## AT-MC13

UTP to fiber ST Ethernet media converter



#### **Fiber Connections**

The Allied Telesis 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.

## MissingLink™

The MissingLink feature 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/MDI-X 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 fiber optic test equipment.

#### Standalone or Rack-mounted

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 rack-mount chassis.

# **Key Features**

- ► EnergyStar power adapters save customers a minimum of 20% power consumption\*
- ► Half and full-duplex operation
- ► Rack-mountable using optional AT-MCR12, AT-TRAY4 or AT-TRAY1 chassis
- ► MDI/MDI-X
- ▶ MissingLink
- ► Link test





Powered by an ENERGY STAR® qualified adapter for a better environment

\*Compared to previous models

alliedtelesis.com NETWORK SMARTER

## AT-MC13 | Ethernet Media Converters

## **Technical Specifications**

#### **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

# **Packet Transmission Characteristics**

Round trip delay 0.4µs 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	±3.2ns	
Harmonics content	27dB below fund	
Common mode	4v	
Output Voltage:		
Silence	Ov	+50mv
Link Test pulse	130ns	105 to 135ns
Output impendance	100Ω	85 to 115Ω
UTP length	100m	
Receiver:		
Receiver threshold	-400mv	-300 to 585mv
Differential noise	300mv	

#### **Power Characteristics**

External power supply 100-240V AC, 50/60Hz +/-3%

Input supply voltage 12vDC +/-5%

Max current .5
Power consumption 6W

## **Environmental Specifications**

External power supply 120V AC, 60Hz (US model)

240V AC, 50Hz (European

models)

Input supply voltage 12vDC
Max current 500mA
Power consumption 6W

#### **Physical Specifications**

 $\begin{array}{lll} \mbox{Dimensions} & 10.5 \mbox{ cm} \times 9.5 \mbox{ cm} \times 2.5 \mbox{ cm} \\ \mbox{(W} \times \mbox{D} \times \mbox{H}) & 4.12 \mbox{ in} \times 3.75 \mbox{ in} \times 1.00 \mbox{ in} \\ \mbox{Weight} & 294g \mbox{ (10.4 oz)} \end{array}$ 

### **Electrical and 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

Where xx = 60 AC power supply, Universal power cord

Allied Telesis

**NETWORK SMARTER** 

North America Headquarters | 19800 North Creek Parkway | Suite 100 | Bothell | WA 98011 | USA | T: +1 800 424 4284 | F: +1 425 481 3895 Asia-Pacific Headquarters | 11 Tai Seng Link | Singapore | 534182 | T: +65 6383 3832 | F: +65 6383 3830 EMEA & CSA Operations | Incheonweg 7 | 1437 EK Rozenburg | The Netherlands | T: +31 20 7950020 | F: +31 20 7950021