



MCIIx Series

Fast Ethernet Media Converters

AT-MC115XL

10/100TX to 10FL/100SX 850nm fiber ST media converter

AT-MC116XL

10/100TX to 10FL/100SX 850nm fiber SC media converter

Fiber Connections

The Allied Telesis range of 850nm fiber Fast Ethernet media converters allows users to extend the size of UTP networks with the use of fiber cabling. Converting between 10T and 10FL or 100TX and 100SX fiber quickly and reliably, the AT-MC115XL and AT-MC116XL address the growing demand for a low-cost solution for fiber installations of up to 300 meters for 100SX and up to 2km for 10FL. To maximize flexibility, the converters are available in ST (AT-MC115XL) and SC (AT-MC116XL) fiber connector styles.

Auto-Negotiation

The AT-MC115XL and AT-MC116XL autonegotiate during the link-up phase of the connection to set the speed (10/100) and operation mode (full or half-duplex). When connecting media converters to autonegotiating Fast Ethernet switches, these media converters will automatically connect the link in either full or half-duplex mode, allowing the link to be established with the greatest bandwidth.

MissingLink[™]

The MissingLink feature allows accurate reporting to network management systems as well as allowing devices with redundant link capability to be inter-connected with these media converters, 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 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-mountable

Each 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 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

- I0/I00TX copper port
- I0/I00SX fiber port
- · Half and full-duplex operation
- Transparent to IEEE 802.1Q packets
- Rack-mountable using optional AT-MCR12, AT-TRAY4 or AT-TRAY1 chassis
- MDI/MDI-X
- MissingLink
- Link test
- Auto-negotiation
- Wall-mountable using optional AT-WLMT bracket

MCIIx Series | Fast Ethernet Media Converters

Technical Specifications

Status Indicators

Power Indicates power is applied to

the converter

Normal Indicates converter is operating in

normal mode

Recieve Indicates port receiving or

transmitting data

10 Indicates link established at 10Mbps100 Indicates link established at 100Mbps

Packet Transmission Characteristics

Round trip delay 0.4 µs maximum Bit Error Rate (BER) <10-12

Twisted Pair Interface

UTP Differential Output Voltage

Typical Min. Max. 980mv 950mv 1050mv

Overshoot Voltage

Typical Max. 4% 5%

Signal Amplitude Symmetry

Typical Min. Max. 1.0062 0.98 1.02

Rise and Fall Time

| Typical Min. Max. | Rise | 4.6ns | 3.0ns | 5.0ns | 5.0ns | Fall | 4.2ns | 3.0ns | 5.0ns |

Rise and Fall Time Symmetry

Typical Max. 0.4ns 0.5ns

Fiber Interface Parameters

Typical Min. Max. Wavelength 850nm

Transmit power -12 dBm -15dBm -10dBm Receive sensitivity -34.4dBm -7.6dBm

Linkbudget II.7dbm

Power Characteristics

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

240V AC, 50Hz

(European models)

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

Environmental Specifications

Operating temp. 0°C to 50°C Storage temp. -20°C to 80°C

Relative humidity 5% to 95% non-condensing

Operating altitude 0 to 3.000m (10.000ft)

Electrical/Mechanical Approvals

EMC FCC Class A, FCC Class B
Safety UL-Cul, CSA/CSA, NRTL, TUV,

CE compliant

Ordering Information

AT-MC115XL-XX

10/100TX to 10FL/100SX 850nm media converter with ST

fiber connectors

AT-MC116XL-XX

10/100TX to 10FL/100SX 850nm media converter with SC

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

Associated Products

AT-MCR12-xx

12 slot power distribution chassis

AT-TRAY4

19-inch rack-mount chassis for up to four media

converters

AT-TRAY I

19-inch rack-mount chassis for one media converter

AT-WLMT

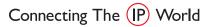
Wall-mount bracket for one media converter

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