AT-MC115XL & AT-MC116XL

Fast Ethernet Media Converters

AT-MC115XL-xx

10/100TX to 10FL/100SX 850nm media converter with ST fiber connectors, 2km

AT-MC116XL-xx

10/100TX to 10FL/100SX 850nm media converter with SC fiber connectors, 2km

FIBER CONNECTIONS

Providing a complete family of conversion devices, Allied Telesyn's range of 850nm fiber Fast Ethernet media converters enable service providers to use fiber cabling to extend the size of UTP networks. 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 300mt 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 & MISSINGLINK™

When connected to auto-negotiating Fast Ethernet switches, these 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

Both media converters 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 RACKMOUNTED

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

- 10/100TX copper port
- 10/100SX fiber port
- Half- & Full-Duplex operation
- Transparent to 802.1Q packets
- Rack-mountable using optional AT-MCR12, TRAY4, or TRAY1 chassis
- MDI/MDIX
- MissingLink™
- Link Test
- Auto-negotiation
- Lifetime limited warranty

It's Our Network, Too.™

Allied Telesyn

AT-MC115XL & AT-MC116XL

Fast Ethernet Media Converters

STATUS INDICATORS

Power	Indicates power is applied to the converter
Normal	Indicates converter is operating in normal mode
Receive	Indicates port receiving or transmitting data
10	Indicates link established at 10Mbps
100	Indicates link established at 100Mbps

PACKET TRANSMISSION CHARACTERISTICS

Round Trip Delay	0.4μs 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.
	1.006	2 0.98	1.02

Rise and Fall Time

	Typical	Min.	Max.
Rise	4.6ns	3.0ns	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	11.7dbm		

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% non-condensing
Operating Altitude	0 to 3.000mt (10.000ft)

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, FCC Class B
Safety	UL-Cul, CSA/CSA, NRTL, TUV, CE compliant

ORDERING INFORMATION

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10/100TX to 10FL/100SX 850nm media converter with SC fiber connectors, 2km

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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