AT-LMC10 & AT-LMC100 SERIES

Media Converters

AT-LMC10SC-xx
10T to 10FL (SC) media converter, 2 km

AT-LMC10ST-xx
10T to 10FL (ST) media converter, 2 km

AT-LMC100SC-xx
100T to 100FX (SC) media converter, 2 km

AT-LMC100ST-xx
100T to 100FX (ST) media converter, 2 km

REDUCE COST

The cost-reduced LMC10 & LMC100 series Ethernet media converters extend the distance of your network by interconnecting LAN devices that are separated by long distances. These media converters can connect any managed or unmanaged 10 or 100Mbps switch or hub using standard 10T or 100T RJ-45 connections and convert the signal to 10FL or 100FX fiber (depending on the model).

EXTEND THE DISTANCE OF ETHERNET

Each LMC10 & LMC100 media converter features a 10T or 100T twisted pair port and a 10FL or 100FX fiber-optic port. The twisted-pair port has an RJ-45 connector and a maximum operating distance of 100 meters (328 feet). The fiber optic port has a multi-mode ST or SC connector and a maximum operating distance of 2 kilometers (1.2 miles). These units operate at half- and full-duplex.

STANDALONE OR RACK-MOUNTED

Each small media converter is powered by an external power supply unit for use in standalone applications. When multiple media converters are used, as many as 12 stand-alone devices can be inserted into a low-cost AT-MCR12 rack-mount chassis, allowing 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

- LEDs for unit & port status
- MDI/MDI-X selector switch on RJ-45 port
- Automatic Half- or Full-Duplex mode operation
- Maximum transmission distance of fiber connection is 2km at Full-Duplex mode
- External AC/DC power adapter
- Standard size for use in AT-MCR12 rack-mount chassis

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Media Converters

STATUS INDICATORS

System LEDs	Power Indicates power is applied to the converter
Per Port LEDs	Link Indicates a valid receiver link exists Receive Indicates validation being received by converter

MDI/MDI-X SELECTOR SWITCH

Allows media converter to use a straight-through cable regardless of the type of end-node connected to the port (MDI or MDI-X).

PHYSICAL SPECIFICATIONS

Height	2.5cm (1.0")
Depth	9.5cm (3.75")
Width	10.5cm (4.125")
Weight	0.27kg (0.60lbs)

POWER CHARACTERISTICS

External Power Supply	100-240vAC, 50/60Hz +/-3%
Input Supply Voltage	12vDC +/-5%
Max Current	.5
Power Consumption	6W

ENVIRONMENTAL SPECIFICATIONS

Maximum Operating Temp.	0°C to 40°C (32°F to 104°F)
Maximum Storage Temp.	-20°C to 60°C (-4°F to 140°F)
Operating/Storage Altitude	Up to 3,048m (10,000')
Relative Humidity Operating/Storage	5% to 95% non-condensing

ELECTRICAL/MECHANICAL APPROVAL

EMI/RFI:	FCC Class B, EN55022 Class B, VCCI Class B
Electrical Safety:	EN60950 (TUV), UL1950 (cULus), CE Compliant
Immunity:	EN55024, VCCI Class B

FIBER OPTICAL TRANSMITTER

Model	Fiber Type	Fiber Optic Diameter (microns)	Optical Wavelength	Launch Power (dBm)[2] Max.	Avg.	Min.
AT-LMC10SC	Multi-mode	50/125	1310nm	-14.0	-20.3	-22.5
AT-LMC10ST	Multi-mode	62.5/125	1310nm	-14.0	-16.8	-19.0

2 = The launch power is measured at one meter from the transmitter.

FIBER OPTICAL RECEIVER

Model	Fiber Type	Fiber Optic Diameter (microns)	Optical Wavelength	Launch Power (dBm)[2] Min.	Typical	Saturation
AT-LMC10SC	Multi-mode	50/125	1310nm	-14.0	-20.3	-22.5
AT-LMC10ST	Multi-mode	62.5/125	1310nm	-14.0	-16.8	-19.0

2 = The launch power is measured at one meter from the transmitter.

FIBER OPTIC DATALINK

Model	Fiber Type	Min. Power/Link Budget	Average Signal Loss	Minimum Distance Spec.[2]	Maximum Distance Spec.
AT-LMC10SC	50/125 multi-mode	13.00dB	18.70dB	0	2km (1.2mi)
AT-LMC10ST	62.5/125 multi-mode	16.80dB	22.50dB	0	2km (1.2mi)

2 = The recommended minimum range is stated in all cases where the maximum transmitter output power exceeds the receiver saturation level. This is to prevent blinding or burning out of the optical receiver on the far-end-node.

FIBER OPTICAL TRANSMITTER

Model	Fiber Type	Fiber Optic Diameter (microns)	Optical Wavelength	Launch Power (dBm)[2] Max.	Avg.	Min.
AT-LMC100SC	Multi-mode	50/125	1310nm	-14.0	-20.3	-22.5
AT-LMC100ST	Multi-mode	62.5/125	1310nm	-14.0	-16.8	-19.0

2 = The launch power is measured at one meter from the transmitter.

FIBER OPTICAL RECEIVER

Model	Fiber Type	Fiber Optic Diameter (microns)	Optical Wavelength	Launch Power (dBm)[2] Min.	Typical	Saturation
AT-LMC100SC	Multi-mode	50/125	1310nm	-33.9	-31.0	-
AT-LMC100ST	Multi-mode	62.5/125	1310nm	-33.9	-31.0	-

2 = The launch power is measured at one meter from the transmitter.

FIBER OPTIC DATALINK

Model	Fiber Type	Min. Power/Link Budget	Average Signal Loss	Minimum Distance Spec.[2]	Maximum Distance Spec.
AT-LMC100SC	50/125 multi-mode	13.00dB	18.70dB	0	2km (1.2mi)
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ORDERING INFORMATION

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10T to 10FL (SC) media converter, 2 km

AT-LMC10ST-xx
10T to 10FL (ST) media converter, 2 km

AT-LMC100SC-xx
100T to 100FX (SC) media converter, 2 km

AT-LMC100ST-xx
100T to 100FX (ST) media converter, 2 km

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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