

## L-MC series Fiber Optic 100M / 1G Ethernet Media Converter

The Lightem L-MC series Media Converter are compact, cost-effective, low dissipative, industrial grade device for converting data signal between 10/100/1000 Base-Tx and 100/1000 Base-Fx fast Ethernet bridging. The 10/100/1000M Media Converter is housed in a metal case, comes with external AC (110-220V) -DC (5V) power supply. The 100Base-TX and the 100Base-FX converter feature LED diagnostics for FX-100, FX-Link / Act, TX-100, TX-Link / Act, FDX, PWR.

All converters are fully compliant with the IEEE 802.3 & 802.3u Fast Ethernet standards and feature one STP-RJ45 10/100Base-TX port as well as one Fiber Optic 100Base-FX (Duplex SC or FC ) port.

The product features multimode and singlemode fiber version. The powerful features includes 10/100/1000 Auto Negotiation, Auto cross over for TP port, Voltage supervisor, and support switch mode & pure converter mode. Installation of the Fast Ethernet converter is simple and straight forward



### FEATURES

- 1x optical port and 1x RJ45 port
- Comply with IEEE 802.3 & 802.3u Fast Ethernet Standards
- LED Indication: FX-100,FX-Link/Act, TX-100, TX-Link/Act, FDX, PWR
- Provide 1x RJ45 twisted pair 10/100M or 10/100/1000M Ethernet port and 1x 100 or 1000M (1G) FX port
- 100/1000BASE-Tx port 10M/100M/1000M and full/half duplex auto-negotiation
- Available wavelength 850nm, 1310nm, 1550nm
- Optional: Single Fiber (WDM Bi Directional)
- Optional Control of (DIP switch) LFP (Link Fault Pass), converter/switch mode flow control, FX speed (10/100/1000M)



### SPECIFICATIONS

Parameter	Values
Operating standards	IEEE802.3u 100Base-TX and 100Base-FX
Connector	UTP: RJ-45, 10/100Mbps & 10/100/1000M
Fiber	100M or 1000M (1G) in Duplex or Simplex SC (Optional: FC )
UTP Cable	UTP cable : Cat. 5 (the max distance up to 100m)
Fiber (multimode)	50/125, 62.5/125µm (the max distance up to 2km)
Fiber (singlemode)	8/125, 8.7/125, 9/125, 10/125µm (the max distance up to 100km)
Wavelength	Distance
Multimode 850nm	0-2km (100M), 0-500m (1000M)
Singlemode 1310nm	0-2km, 0-20km, 0-40km
Singlemode 1550nm	0-100km (100M), 0-60km & 0-100km (1000M)
Half / Full Duplex	IEEE802.3x flow control
Power	AC170 ~ 240V, DC5V 2A
DIP option	Converter (9k) or Switch mode, Link Fault Pass through function, Flow control, Half / Full Duplex
Operating temperature	0 ~ +55°C
Storage temperature	-20 ~ +70°C
Humidity	5% ~ 90%
Dimensions (standalone)	95x70x26mm
Dimensions (19" Chassis)	19" 2U height

## ACCESSORY

### LR2U-E series - 14slots Media Converter Rack Chassis

LR2U-E / LX-MCR14 Media Converter Rack Chassis is a Rackmount Chassis system for L-MC series Fiber Optic Media Converter. It supports maximum 14x media converters in a 2U Rackmount chassis. It comes with standard dual power supplies for fail safe operation.



## FEATURES

- 19" 2U Rackmount design
- Simply plug and play

## SPECIFICATIONS

Parameter	Values
Capacity	14 slots available. Every 10/100/1000Mbps converter card occupies one slot
Power	Input: AC100-260V @50-60Hz   Output: DC5V @ 12A
Noise	<50mV
Power Protection	Protection from over voltage, current and short circuit
Operating Temperature	0 ~ +55°C
Storage Temperature	-20 ~ +70°C
Humidity	5% ~ 90%
Dimensions	485x245x90mm (19" 2U height)

## ORDERING INFORMATION

PN	Description
<b>Duplex Fiber SC Connectors</b>	
LM0110-D02-E-8	10/100Mb/s Multimode 850nm, 2km, Duplex SC
LM0110-D02-E-3	10/100Mb/s Multimode 1310nm, 2km, Duplex SC
LS0110-D02-E **	10/100Mb/s Singlemode 1310nm, 2km, Duplex SC
LS0110-D20-E **	10/100Mb/s Singlemode 1310nm, 20km, Duplex SC
LS0110-D40-E **	10/100Mb/s Singlemode 1310nm, 40km, Duplex SC
LS0110-D60-E **	10/100Mb/s Singlemode 1310nm, 60km, Duplex SC
LS0110-D110-E **	10/100Mb/s Singlemode 1550nm, 110km, Duplex SC
LM1000-D05-8-E	10/100/1000Mb/s Multimode 850nm, 500m, Duplex SC
LS1000-D20-E **	10/100/1000Mb/s Singlemode 1310nm, 20km, Duplex SC
LS1000-D40-E **	10/100/1000Mb/s Singlemode 1310nm, 40km, Duplex SC
LS1000-D60-E **	10/100/1000Mb/s Singlemode 1550nm, 60km, Duplex SC
LS1000-D110-E **	10/100/1000Mb/s Singlemode 1550nm, 110km, Duplex SC
<b>Simplex Fiber SC Connectors</b>	
LS0110-S2035-E	10/100Mb/s Singlemode 1310/1550nm, 20km, Simplex SC
LS0110-S2053-E	10/100Mb/s Singlemode 1550/1310nm, 20km, Simplex SC
LS0110-S4035-E	10/100Mb/s Singlemode 1310/1550nm, 40km, Simplex SC
LS0110-S4053-E	10/100Mb/s Singlemode 1550/1310nm, 40km, Simplex SC
LS0110-S6035-E	10/100Mb/s Singlemode 1310/1550nm, 60km, Simplex SC
LS0110-S6053-E	10/100Mb/s Singlemode 1550/1310nm, 60km, Simplex SC
LS0110-S10035-E	10/100Mb/s Singlemode 1310/1550nm, 100km, Simplex SC
LS0110-S10053-E	10/100Mb/s Singlemode 1550/1310nm, 100km, Simplex SC
LS1000-S2035-E	10/100/1000Mb/s Gigabit Singlemode 1310/1550nm, 20km, Simplex SC
LS1000-S2053-E	10/100/1000Mb/s Gigabit Singlemode 1310/1550nm, 20km, Simplex SC
LS1000-S4035-E	10/100/1000Mb/s Gigabit Singlemode 1310/1550nm, 40km, Simplex SC
LS1000-S4053-E	10/100/1000Mb/s Gigabit Singlemode 1310/1550nm, 40km, Simplex SC
LS1000-S6035-E	10/100/1000Mb/s Gigabit Singlemode 1310/1550nm, 60km, Simplex SC
LS1000-S6053-E	10/100/1000Mb/s Gigabit Singlemode 1310/1550nm, 60km, Simplex SC
LS1000-S10035-E	10/100/1000Mb/s Gigabit Singlemode 1310/1550nm, 100km, Simplex SC
LS1000-S10053-E	10/100/1000Mb/s Gigabit Singlemode 1310/1550nm, 100km, Simplex SC
*Optional : All items DIP switch available	DIP switch of LFP (Link Fault Pass), converter/switch mode flow control, FX speed (10/100/1000M)
** Optional: FC Ports	
<b>Accessory</b>	
LR2U-E	19" 2U 14 Slots chassis for installing the 14 sets of LX series Media Converters Card with dual power supplies

## FUNCTIONAL DIAGRAM

