

TELECOM/DATACOM SYSTEM

Lightem 10/100M & 10/100/1000M Ethernet Media Converter – 2 RJ45

The Lightem L-MC series Media Converter are compact, cost-effective, low dissipative, industrial grade device for converting data signal between 10/100 Base-Tx and 100/1000 Base-Fx Ethernet bridging. The Media Converter is housed in a metal case, comes with external AC (110-220V) -DC (5V) power supply. The converter features LED diagnostics for FX, TP1 Act, TP1 FDX, TP2 Act, TP2 FDX, POWER.

All converters are fully compliant with the IEEE 802.3 & 802.3u Fast Ethernet standards (IEEE802.3ab & 802.3z for Gigabit Ethernet standards) and feature 2 STP-RJ45 10/100Base (or 10/100/1000Base) -TX port as well as one Fiber Optic 100Base-FX (or 1000Base-FX) port with Duplex or Simplex SC.

The product features 2 versions: 10/100M Fast Ethernet and 10/100/1000M Gigabit Ethernet. The powerful feature includes 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 straightforward.



FEATURES

- Available in 10/100M Fast & 10/100/1000M Gigabit Ethernet versions
- Comply with IEEE 802.3, 802.3u, 802.3ab & 802.3z Fast / Gigabit Ethernet Standards
- LED Indication: FX, TP1 Act, TP1 FDX, TP2 Act, TP2 FDX, POWER.
- Provide 2x RJ-45 twisted pair Ethernet port and 1x Fx port
- 10/100M & 10/100/1000M BASE-Tx port and full/half duplex auto-negotiation
- Available wavelength 850nm, 1310nm, 1550nm
- Optional LFP (Link Fault Pass Through) function
- 19" 2U Rackmount Chassis available

SPECIFICATIONS

Parameter	Values
Operating Standards	IEEE 802.3 10BaseT, IEEE 802.3u 100Base-TX, 100Base-FX, IEEE802.3ab 1000Base-Tx, IEEE802.3z 1000Base-X
Connector	2x RJ45 & 1x FX (Duplex or Simplex SC)
MTBF	97210 hr
LED Indication	FX, TP1 Act, TP1 FDX, TP2 Act, TP2 FDX, POWER.
Fiber Singlemode	50/125, 62.5/125µm
Fiber Multimode	8.7/125, 9/125, 10/125µm
Power supply	AV220V (175-260V), 50HZ or DC+5V 1A
Operating Temperature	0 ~ 55°C
Storage Temperature	-20 ~ 70°C
Humidity	5%-95% (non condensation)
Dimensions	26X70X94mm

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

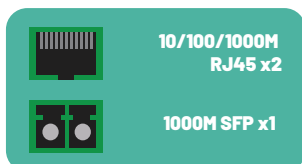
- 19" 2U Rackmount design
- Simply plug and play

SPECIFICATIONS

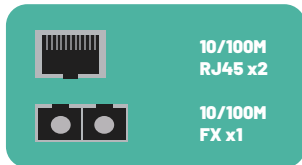
Parameter	Values
Capacity	14 slots available. Every 10/100/1000Mbps converter card occupies one slot
Power	Input: AC100-260V @50-60Hz Output: DC5V @ 12A
Noise	<50mV
Power Protection	Protection from over voltage, current and short circuit
Operating Temperature	0 ~ +55°C
Storage Temperature	-20 ~ +70°C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

FUNCTIONAL DIAGRAM

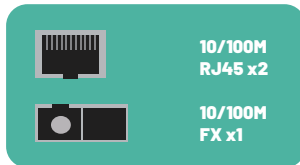
LX3-1SFP



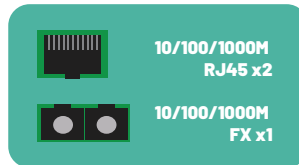
LF3-1FX-S20-3 ; LF3-1FX-M02-3 & 8



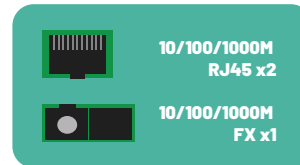
LF3-1FX-S2035 & 53



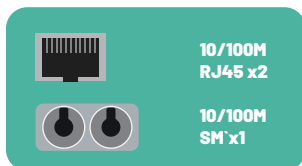
LX3-1FX-M02-3 & 8 ; LX3-1FX-S20-3



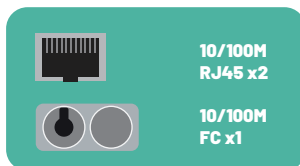
LX3-1FX-S2035 & 53



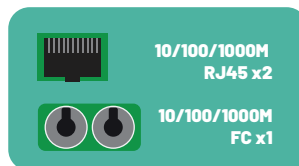
LF3-1FX-S20-3-FC ; LF3-1FX-M02-3 & 8-FC



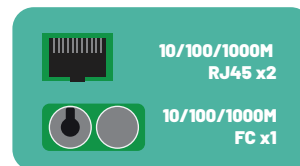
LF3-1FX-S2035 & 53-FC



LX3-1FX-M02-3 & 8-FC ; LX3-1FX-S20-3-FC



LX3-1FX-S2035 & 53 - FC



ORDERING INFORMATION

PN	Description
LF3-1FX-S20-3	3 port 10/100M Fast Ethernet Switch with 2x RJ45 ports + SM Fiber ports (Duplex SC), Singlemode 20km 1310nm
LF3-1FX-M02-3	3 port 10/100M Fast Ethernet Switch with 2x RJ45 ports + MM Fiber ports (Duplex SC), Multimode 2km 1310nm
LF3-1FX-M02-8	3 port 10/100M Fast Ethernet Switch with 2x RJ45 ports + MM Fiber ports (Duplex SC), Multimode 2km 850nm
LF3-1FX-S2035	3 port 10/100M Fast Ethernet Switch with 2x RJ45 ports + SM Fiber ports (Simplex SC), Singlemode 20km Tx/Rx: 1310nm/1550nm
LF3-1FX-S2053	3 port 10/100M Fast Ethernet Switch with 2x RJ45 ports + SM Fiber ports (Simplex SC), Singlemode 20km Tx/Rx: 1550nm/1310nm
LX3-1FX-M02-8	3 port 10/100/1000M Gigabit Ethernet Switch with 2x RJ45 ports + MM Fiber ports (Duplex SC), Multimode 500m 850nm
LX3-1FX-M02-3	3 port 10/100/1000M Gigabit Ethernet Switch with 2x RJ45 ports + MM Fiber ports (Duplex SC), Multimode 500m 1310nm
LX3-1FX-S20-3	3 port 10/100/1000M Gigabit Ethernet Switch with 2x RJ45 ports + SM Fiber ports (Duplex SC), Singlemode 20km 1310nm
LX3-1SFP (No FC option)	3 port 10/100/1000M Gigabit Ethernet Switch with 2x RJ45 ports +SFP port (SFP not included) (No FC option))
LX3-1FX-S2035	3 port 10/100/1000M Gigabit Ethernet Switch with 2x RJ45 ports + SM Fiber ports (Simplex SC), Singlemode 20km Tx/Rx: 1310/1550nm
LX3-1FX-S2053	3 port 10/100/1000M Gigabit Ethernet Switch with 2x RJ45 ports + SM Fiber ports (Simplex SC), Singlemode 20km Tx/Rx: 1550/1310nm
* All product support FC optional Ports	
Accessory	
LR2U-E	19" 2U 14 Slots chassis for installing the 14 sets of LX series Media Converters Card with single or dual power supply