MCLN1 Series

Industrial one channel 10/100M Ethernet Media Converter

Product Description

The KBC MCLN1 series is an industrial 10/100M Ethernet media converter(MC). It supports transmission of one channel 10/100Base-T Ethernet over either one or two, multimode or single mode optical fibers with full duplex operation. Plug-and-play design makes installation straightforward, with no electrical or optical adjustment needed. LED indicators are provided to show the operational status of the unit. Rugged design in both enclosure and electrical protection makes it suit for application in harsh environment.

The series is available in wall, DIN, and 2U passive rack FR2-12, or card version in 2U chassis FR2-16.



Wall&DIN Rail Mount Media Converter



Card Version



FR2-12 W/12 Slots



FR2-16 W/16 Slots & Power Supply

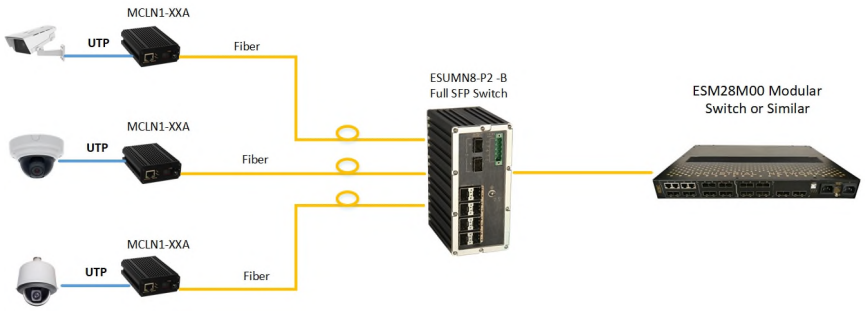
Product Features

- 10/100M auto sensing
- 2kV Surge Protection on RJ45 electrical Port
- Compatible with SFP version of MCLN1 series, PoE version of MCLS1 series, and two channel 10/100M media converter MCLN2 series
- SM(Single Mode) and MM(Multi Mode)
- 1 fiber or 2 fibers
- SM&MM: 1310nm/1550m for 1 fiber, 1310nm for 2 fibers
- Typical SM and MM transmission distance are 20km and 2 km respectively, longer distance is available
- IP40 enclosure
- DIN, Wall Mount or 2U Card version
- FR2-12 passive Rack with 12 slots or Chassis card in FR2-16 with 16 slots

Typical System Configuration



Typical Application -1: Point to Point connection



Typical Application -2 : Media converters directly connect to SFP switch

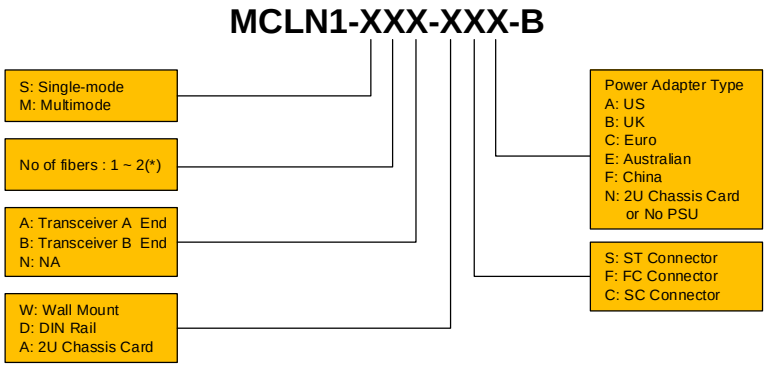
Copyright© KBC Networks 2018

Specifications

Standards	
IEEE Standards	IEEE802.3 10Base-TX IEEE802.3u 100Base-TX IEEE802.3u 100Base-FX
Electrical	
Data Port	1
Data Rate	10/100Mbps Auto-Sensing Half & Full Duplex
Surge Protection	2kV
Optical	
Port	1
Wavelength	1 fiber SM&MM: 1310nm/1550nm 2 fibers SM&MM: 1310nm
Fiber	1 or 2 MM (50/62.5/125μm) SM (9/125μm)
Typical Loss Budget	12dB
Typical Distance (1)	Multimode: 2km Singlemode: 20km Longer distance is available

Power	
Power Input	+12Vdc
Power consumption	< 3W
Power Supply (2)	Input: 100 ~ 240Vac Output: +12Vdc
Chassis Card	Supplied from FR2 PSU
Environmental	
Operating Temperature	-40° ~ +75°C
Storage Temperature	-40° ~ +85°C
Operating Humidity	0 to 95% non-condensing
Mean Time Between Failure (MTBF)	> 100,000 Hours
Enclosure Protection	IP40
Connectors	
10/100M Electrical	RJ-45
Fiber (3)	SC, FC or ST
Power (4) Wall Mount/DIN Rail	Screw Block Terminal
Others	
Cable	CAT5 or CAT6, direct or cross cable
LEDs	Connection status data sending & receiving

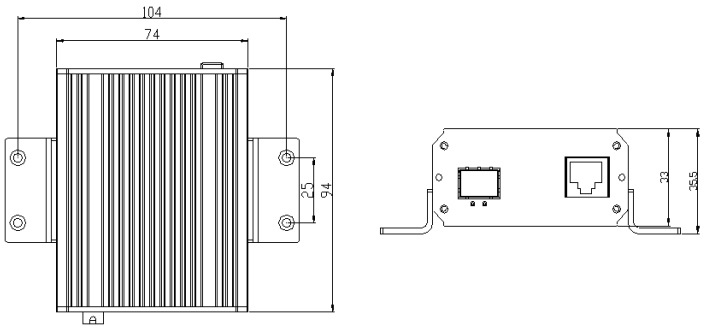
Part Number Configurator



*: For two fibers,both ends are same , that is MCLN1-X2N-XXX-B

Dimension

L x W x H 94mm x 74mm x 33 mm



1. Transmission distance is limited by optical loss of the total fiber connection and fiber dispersion (fiber bandwidth).
2. Please select the power plug type when placing order.
3. Please select the fiber connector when placing order.
4. Power lines are crimped and fitted to screw block connector in factory.

Due to ongoing technological improvements, product specifications are subject to change without notice. KBC is not liable for any errors, omissions or changes of any description of the goods contained herein. This information is for the sole purpose of identifying the products and KBC makes no warranty that the products conform to any description contained herein. Do not rely solely on any representations, statements, or assertions concerning these Products contained herein.