

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







FR2-:

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

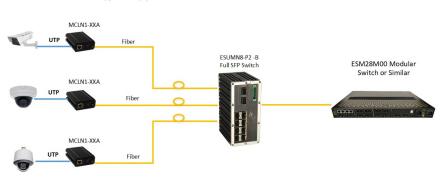
Card Version

- 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

Specifications

Standards IEEE Standards

Electrical Data Port

Data Rate

Surge Protection

Optical

Port Wavelength

Fiber

Typical Loss Budget Typical Distance (1)

IEEE802.3 10Base-TX IEEE802.3u 100Base-TX IEEE802.3u 100Base-FX

1

10/100Mbps Auto-Sensing Half & Full Duplex 2kV

1 1 fiber SM&MM: 1310nm/1550nm 2 fibers SM&MM: 1310nm 1 or 2 MM (50/62.5/125µm) SM (9/125µm)

12dB Multimode: 2km Singlemode: 20km Longer distance is available

Power

Power Input Power consumption Power Supply (2)

Chassis Card

Environmental

Operating Temperature Storage Temperature **Operating Humidity** Mean Time Between Failure (MTBF)

Enclosure Protection

Connectors 10/100M Electrical Fiber (3) Power⁽⁴⁾ Wall Mount/DIN Rail

Others Cable

LEDs

+12Vdc < 3W Input: 100 ~ 240Vac Output: +12Vdc Supplied from FR2 PSU

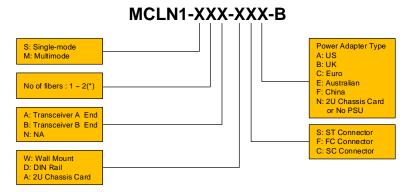
-40° ~ +75°C -40° ~ +85°C 0 to 95% non-condensing > 100,000 Hours

IP40

RJ-45 SC, FC or ST Screw Block Terminal

CAT5 or CAT6, direct or cross cable Connection status data sending & receiving

Part Number Configurator

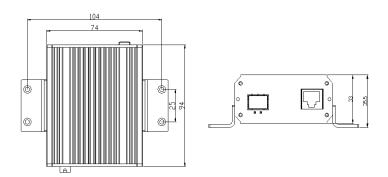


*: For two fibers, both ends are same , that is MCLN1-X2N-XXX-B

Dimension

LxWxH

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.

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