



Product Description

The KBC MCLS1 series is an industrial 10/100M Ethernet media converter(MC) with POE. 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. It supports POE/POE+. This POE media converter MCLS1 series is compatible with non POE 10/100M media converter MCLN1 series. Typically, POE media converter is installed in remote end, in the head end MCLN1 series media converter is installed. 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. Chassis card version in FR2-16 is not available.



Wall & DIN Rail Mount
POE Media Converter

FR2-12 W/12 Slots

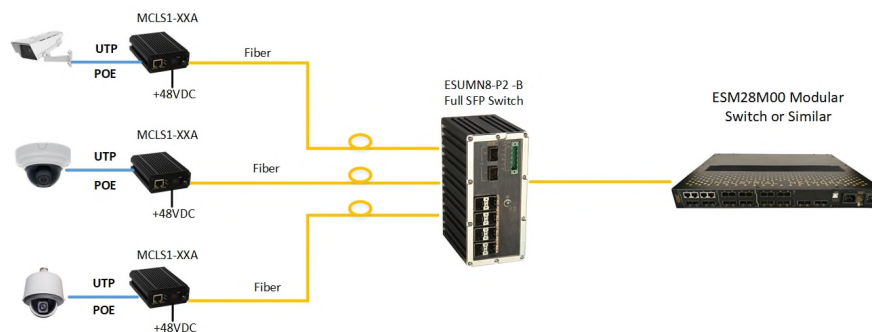
Product Features

- 10/100M auto sensing
- 6kV Surge Protection on RJ45 electrical Port
- POE/POE+ support
- Compatible with one channel non PoE 100M media converter MCLN1 series
- SM(Single Mode) , and MM(Multi Mode)
- 1 fiber or 2 fibers
- 1310/1550nm 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 Rail, Wall Mount, and FR2-12 passive Rack

Typical System Configuration



Typical Application -1 :Point to Point connection



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

Specifications

Standards

IEEE Standards IEEE802.3 10Base-TX
IEEE802.3u 100Base-TX/FX
IEEE802.3af,IEEE802.3at

Electrical

Data Port 1
Data Rate 10/100Mbps Auto-Sensing
Half & Full Duplex
Surge Protection 6kV

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⁾ MM: 2km
SM: 20KM

Power

Power Input +48 ~ 57Vdc
Power consumption <3W (without POE)
<33W (with POE)
Power Supply ⁽²⁾ Input: 100 ~ 240Vac
Output: +48Vdc

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

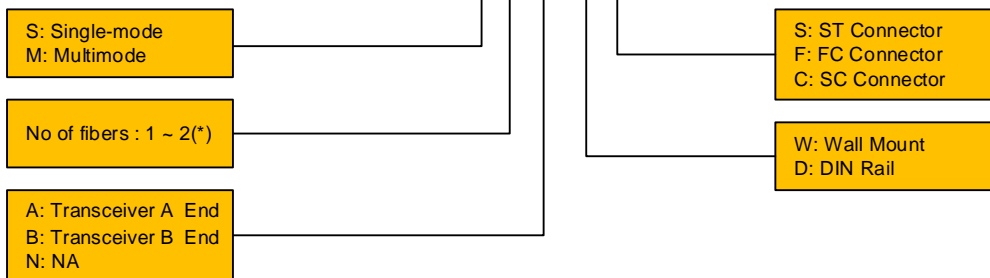
10/100M Electrical RJ-45
Fiber ⁽³⁾ FC, SC or ST
Power ⁽⁴⁾ Wall Mount/DIN Rail Screw Block Terminal

Others

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

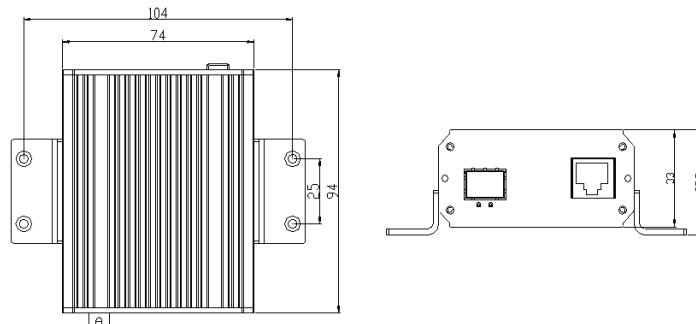
Part Number Configurator

MCLS1-XXX-XXN-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.

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