

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 singlemode optical fibers with full-duplex operation. It supports POE/POE+. This POE media converter MCLS1 series is compatible with the non-POE 10/100M media converter MCLN1 series. Typically, the POE media converter is installed at the remote end and the MCLN1 series media converter is installed at the head end. The 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 suitable for application in harsh environments.

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

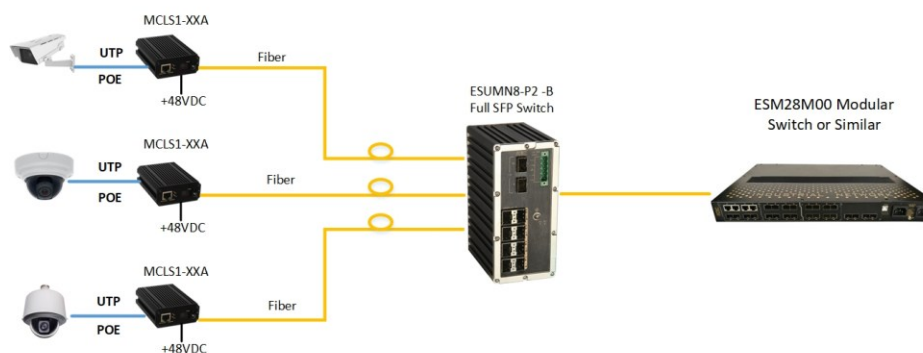
Product Features

- 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(Singlemode) , and MM(Multimode)
- 1 fiber or 2 fibers
- 1310/1550nm for 1 fiber; 1310nm for 2 fibers
- Typical SM and MM transmission distances are 20 KM 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	100 Mbps
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 ⁽²⁾

Power Input	+48 ~ 57Vdc
Power consumption	<3W (without POE) <33W (with POE)

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

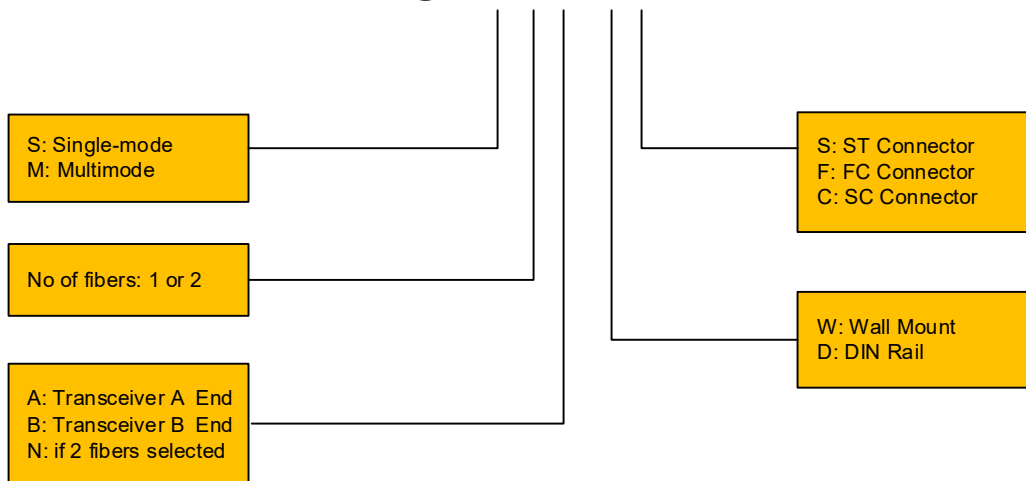
10/100M Electrical	RJ-45
Fiber ⁽³⁾	FC, SC or ST
Power	Screw Block Terminal

Others

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

Part Number Configurator

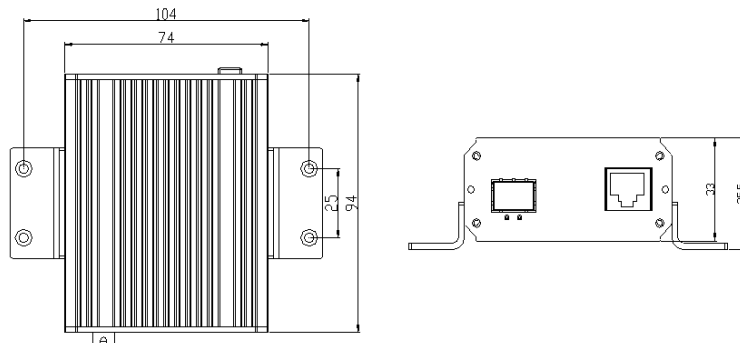
MCLS1-XXX-XXN-B



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. Power supply sold separately.
3. Please select the fiber connector when placing order.

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.