

Product Description

The KBC MCLN2 series is an industrial two channels 10/100M Ethernet media converter. It supports transmission of two channels 10/100Base-T Ethernet over either one or two, multimode or single mode optical fibers with full duplex operation. Typically the two channels media converter is installed in remote end, in head end compatible one channel media converter MCLN1 series 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 mount, DIN, and 2U passive rack FR2-12.



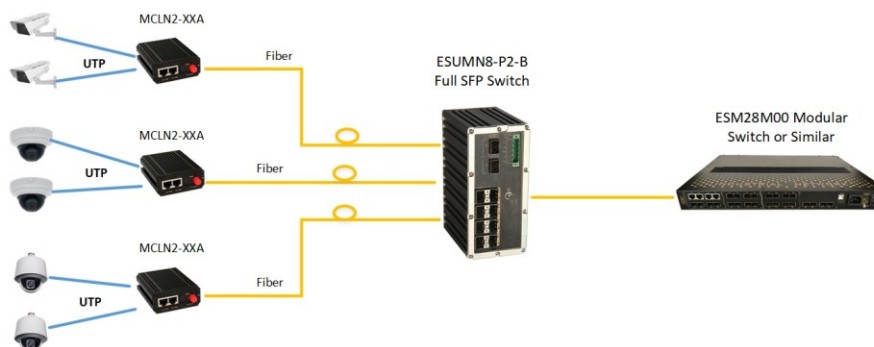
Product Features

- 10/100M auto sensing
- 2kV Surge Protection on RJ45 electrical Port
- Compatible with 1 channel 10/100M media converter MCLN1 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
- FR2-12 passive Rack with 12 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

IEEE802.3 10Base-TX

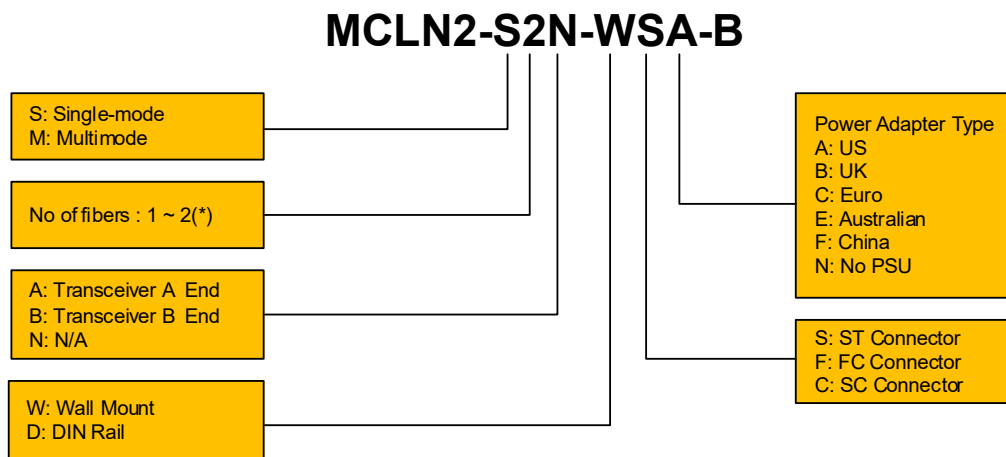
Power

Power Input

+12Vdc

Electrical	IEEE802.3u 100Base-TX IEEE802.3u 100Base-FX	Power Consumption Power Supply ⁽²⁾	< 3W Input: 100 - 240Vac Output: +12Vdc
Data Port	2	Environmental	
Data Rate	10/100Mbps Auto-Sensing Half & Full Duplex	Operating Temperature	-40° ~ +75° C
Surge Protection	2kV	Storage Temperature	-40° ~ +85° C
Optical		Operating Humidity	0 to 95% non-condensing
Port	100 Mbps	Mean Time Between Failure (MTBF)	> 100,000 Hours
Wavelength	1 fiber SM&MM:1310nm/1550nm 2 fibers SM&MM: 1310nm	Enclosure Protection	IP40
Fiber	1 or 2 MM (50/62.5/125µm) SM (9/125µm)	Connectors	
Typical Loss Budget	12dB	10/100M Electrical	RJ-45
Typical Distance ⁽¹⁾	MM: 2km SM: 20KM Longer distance is available	Fiber ⁽³⁾ Power ⁽⁴⁾	FC, SC or ST Screw Block Terminal
		Others	
		Cable LEDs	CAT5 or CAT6, direct or cross cable Connection status data sending & receiving

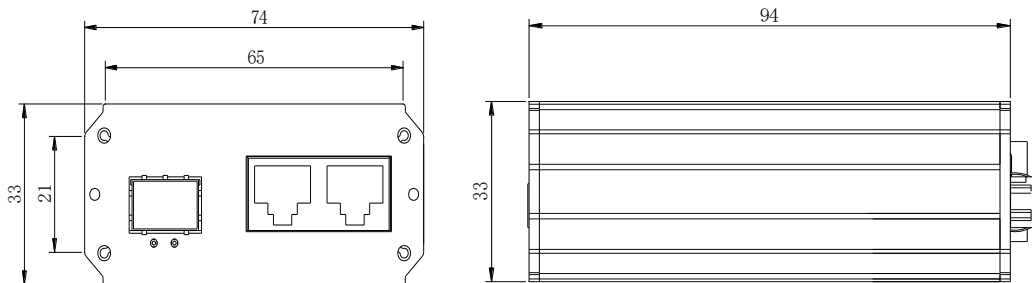
Part Number Configurator



*: For two fibers, both ends are same, that is MCLN2-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.

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