



## Product Description

The KBC MCLN1-P1N series is an industrial 10/100M Ethernet media converter. It supports transmission of one channel 10/100Base-T Ethernet over SFP port, by selecting different KBC SFP modules, the media converter can be transmitted via one or two, multimode or single mode optical fibers with full duplex operation. There is no A end or B end for MCLN1-P1N series, both ends of MCLN1-P1N are same. But when inserting 1 fiber version SFP module, two ends should be matched, that means one end is 1310nm/1550nm SFP, the other end is 1550nm/1310nm SFP. 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.



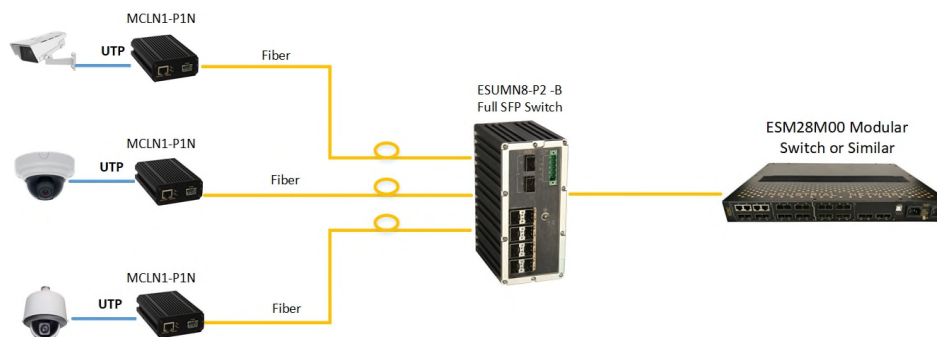
## Product Features

- 10/100M auto sensing
- 1\*100Base-TX port
- 1\*100Base-FX SFP port
- 2kV Surge Protection on RJ45 electrical Port
- Compatible with MCLN1 series with 1\*9 optics, and two channels 10/100M media converter MCLN2 series
- 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	IEEE802.3 10Base-TX IEEE802.3u 100Base-TX IEEE802.3u,100Base-Fx
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### Electrical

Data Port	1
Data Rate	10/100Mbps Auto-Sensing Half & Full Duplex
Surge Protection	2kV

### Optical

100Base-FX SFP Port <sup>(1)</sup>	1
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### Power

Power Input	+12Vdc
Power consumption	< 3W
Power Supply <sup>(2)</sup>	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

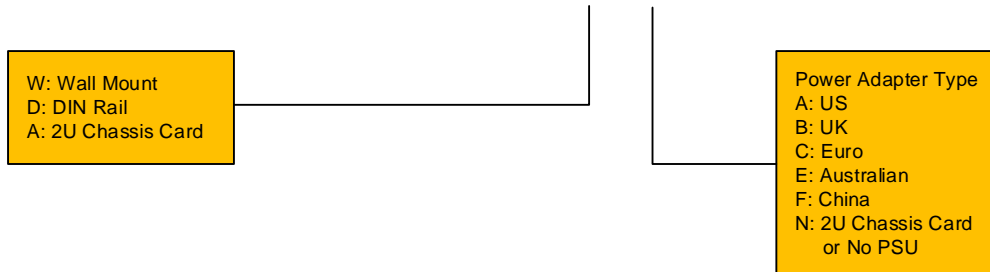
10/100 Electrical	RJ-45
Power <sup>(3)</sup> Wall Mount/DIN Rail	Screw Block Terminal

### Others

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

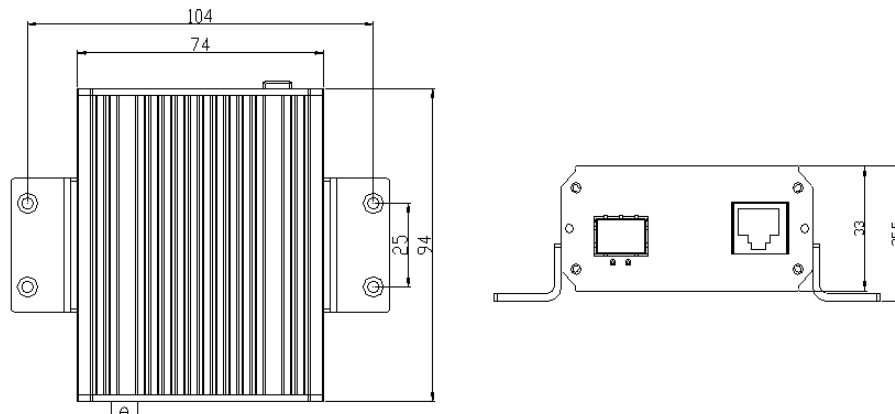
## Part Number Configurator

### MCLN1-P1N-XXN-B



## Dimension

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



1. SFP module sold separately. Please reference KBC SFP module spec.
2. Please select the power plug type when placing order.
3. Power lines are crimped and fitted to screw block connector in factory.

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