



## Product Description

The KBC MCGN2-P1N series is an industrial two channels 10/100/1000M Ethernet media converter. It supports transmission of two channels 10/100/1000 Base-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 MCGN2-P1N series, both ends are same for media converter with SFP port, 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. Typically the two channels media converter is installed in remote end, in the head end compatible MCGN1 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, or card version in 2U chassis FR2-16.



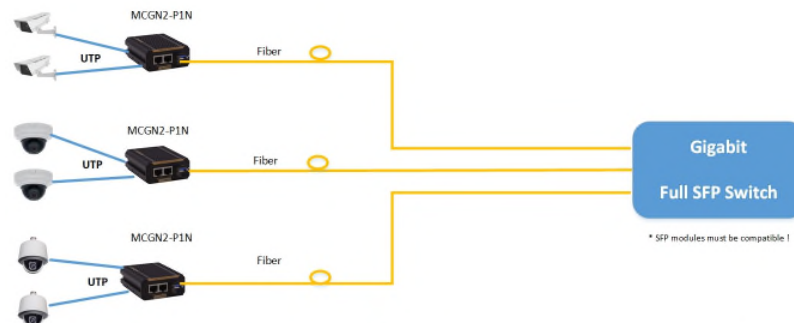
## Product Features

- 10/100/1000M auto sensing
- 2\*1000Base-TX Ports
- 1\*1000Base-FX SFP Port
- 2kV Surge Protection on RJ45 electrical Port
- Compatible with 1 channel 1000M media converter MCGN1 series
- IP40 enclosure
- Wall & DIN Mount
- 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<br>IEEE802.3u 100Base-TX<br>IEEE802.3ab 1000Base-TX<br>IEEE802.3z 1000Base-FX |
|----------------|---|

### Electrical

|                  |  |
|------------------|--|
| Data Port        | 2  |
| Data Rate        | 10/100/1000Mbps Auto-Sensing<br>Half & Full Duplex |
| Surge Protection | 2kV  |

### Optical

|                                    |   |
|------------------------------------|---|
| 100Base-FX SFP port <sup>(1)</sup> | 1 |
|------------------------------------|---|

### Power

|                             |                                       |
|-----------------------------|---------------------------------------|
| Power Input                 | +12Vdc                                |
| Power consumption           | < 3W                                  |
| Power Supply <sup>(2)</sup> | Input: 100 - 240Vac<br>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

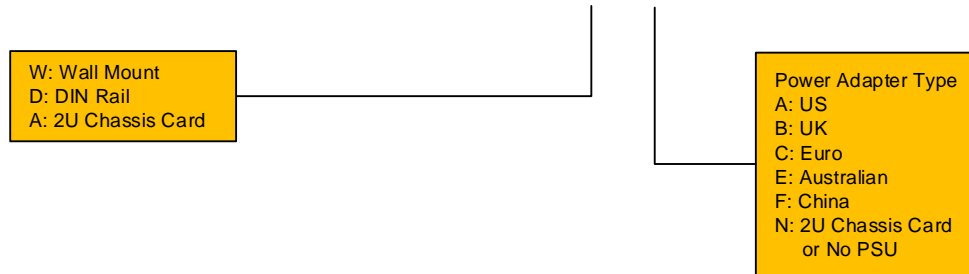
|  |                      |
|--|----------------------|
| 10/100 Electrical                        | RJ-45                |
| Power                                    | Terminal             |
| Power <sup>(3)</sup> Wall Mount/DIN Rail | Screw Block Terminal |

### Others

|       |   |
|-------|---|
| Cable | CAT5 or CAT6, direct or cross cable           |
| LEDs  | Connection status<br>data sending & receiving |

## Part Number Configurator

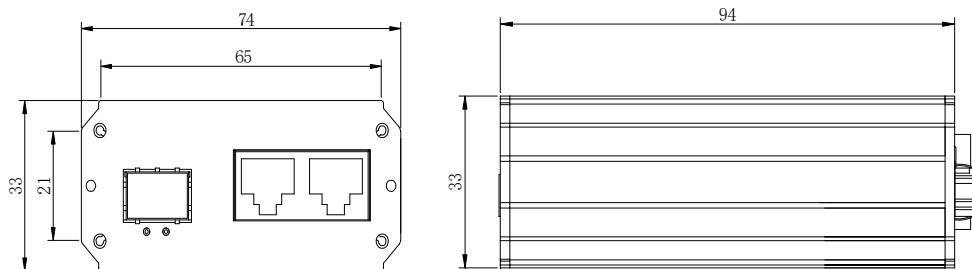
### MCGN2-P1N-XNX-B



## 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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