



Product Description

The KBC MCGN1 series is an industrial 10/100/1000M Ethernet media converter. It supports transmission of one channel 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 MCLN1-P1N series, both ends of MCGN1-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.



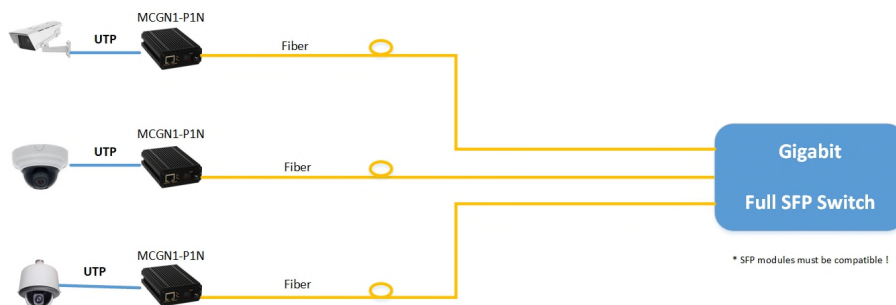
Product Features

- 10/100/1000M auto sensing port
- 1*10/100/1000Base-TX Port
- 1*1000Base-FX SFP Port
- 2kV Surge Protection on RJ45 electrical Port
- Compatible with one channel MCGN1 series with 1*9 optics, two channel 10/100/1000M media converter MCGN2 series
- IP40 enclosure
- DIN, Wall 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, IEEE802.3u
IEEE802.3ab, IEEE802.3z

Electrical

Data Port 1
Data Rate 10/100/1000Mbps Auto-Sensing
Half & Full Duplex
Surge Protection 2kV

Optical

1000Base-FX SFP Port ⁽¹⁾ 1

Power

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

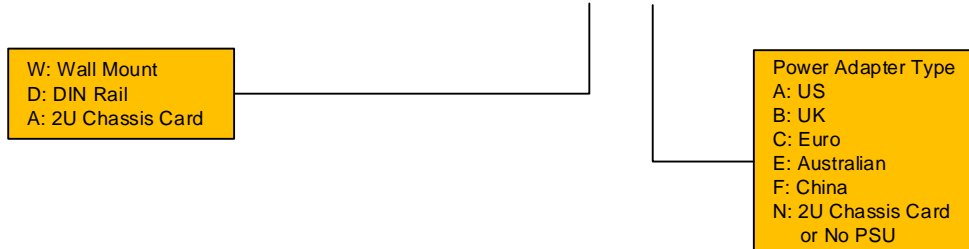
10/100/1000M Electrical RJ-45
Power ⁽³⁾ Wall Mount/DIN Rail Screw Block Terminal

Others

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

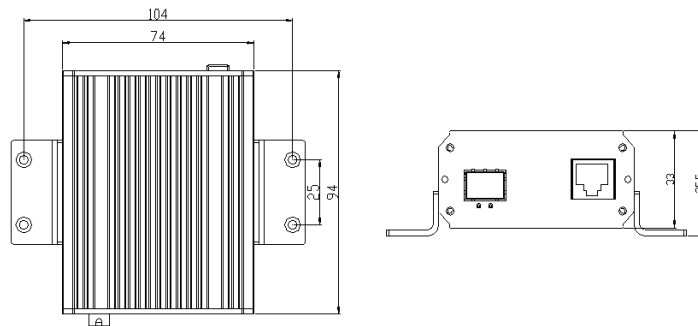
Part Number Configurator

MCGN1-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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