



Product Description

The KBC MCG1-P series is a fully ruggedized 10/100/1000 Ethernet media converter. It supports transmission of an Ethernet channel over a multimode or singlemode optical fiber via an SFP port. Depending on the SFP chosen, full duplex operation enables distances of up to 80km on singlemode fiber* to be achieved. Plug-and-play design ensures ease of installation with no electrical or optical adjustment needed. LED indicators are provided to show the operational status of the unit.

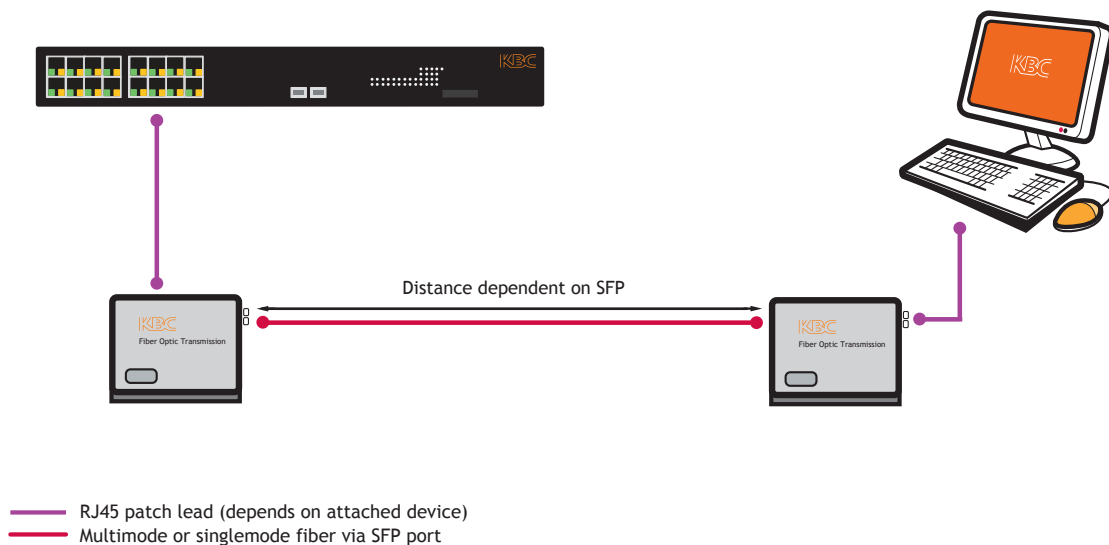
The MCG1-P Series is available as a compact, wall-mount unit.



Product Features

- IEEE802.3ab 1000Base-T compliant
- 10/100/1000 auto-sensing
- MDI/MDIX
- Ultra-compact footprint
- SFP interface
- Wide operational temperature range

Typical System Configuration



Specifications

Standards

IEEE Standard

IEEE 802.3 10BASE-T
IEEE 802.3u 100BASE-TX
IEEE 802.3ab 1000BASE-T
IEEE 802.3z 1000BASE-X Fiber
IEEE 802.3x Full duplex

Environmental

Operating Temperature -40° - +70° C / -40° - +158° F
Storage Temperature -40° - +70° C / -40° - +158° F
Operating Humidity 0 to 95% non-condensing
Mean Time Between Failure (MTBF) >100,000 Hours

Data

Data Formats Two Way Channels
Data Rate

Ethernet 1
10/100/1000Mbps auto-sensing half & full duplex

Mechanical

Dimensions (W x H x D) 77mm x 70mm x 44mm
Compact unit (3.03" x 2.76" x 1.73")

Power

Power Input
Power Supply⁽¹⁾

12-24 Vac/dc
Input: 100 - 240 Vac
Output: +12 Vdc

Connectors

Ethernet 1 x RJ45
Fiber SFP
Power⁽²⁾ Screw block terminal

Part Number Configurator

MCG1-P2-MSB

A: US Power Connection
B: UK Power Connection
C: Euro Power Connection
D: Special Product
E: Australian Power Connection

Optical Budget

Optical budget and transmission distance⁽³⁾ is dependent upon the SFP used. Please see our SFP datasheet for further information.

1. Please select the power plug from US Standard, Euro 2 Circular or UK 3 Pin square when placing order

2. Power lines are crimped and fitted to screw block connector in factory.

3. Transmission distance is limited by optical loss of the fiber and loss introduced by connectors, splices and patch panels . Fiber bandwidth also limits the transmission distance.

4. Power supply for USA is UL and cUL listed

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