# MCCG1 Series
Commercial 10/100/1000M Ethernet Media Converter

## Product Description

The KBC MCCG1 series is a 10/100/1000 Ethernet media converter. It supports transmission of an Ethernet channel over either one or two, multimode or singlemode optical fibers with full duplex operation. 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.

The series is available in a compact, wall-mount unit that also fits within a 2U 19" rack. Up to 16 MCCG1 media converters can be accommodated in a rack.

KBC MCCG1 10/100/1000 media converters are designed for transmission distances up to 4km for multimode fiber and 25km on singlemode fiber. If the media converter is to be connected to an SFP port, please contact us for advice since SFPs can vary in the level at which they saturate.

## Product Features

- Compact footprint
- 16 units can be inserted into a 19" rack
- 10/100/1000M auto sensing
- MDI/MDIX
- Multimode and singlemode interfaces
- Single and dual fibers
- Up to 25km on singlemode fiber

## Typical System Configuration



IP Camera

Up to 25km

———— RJ45 patch lead (depends on attached device)

———— Multimode or singlemode fiber
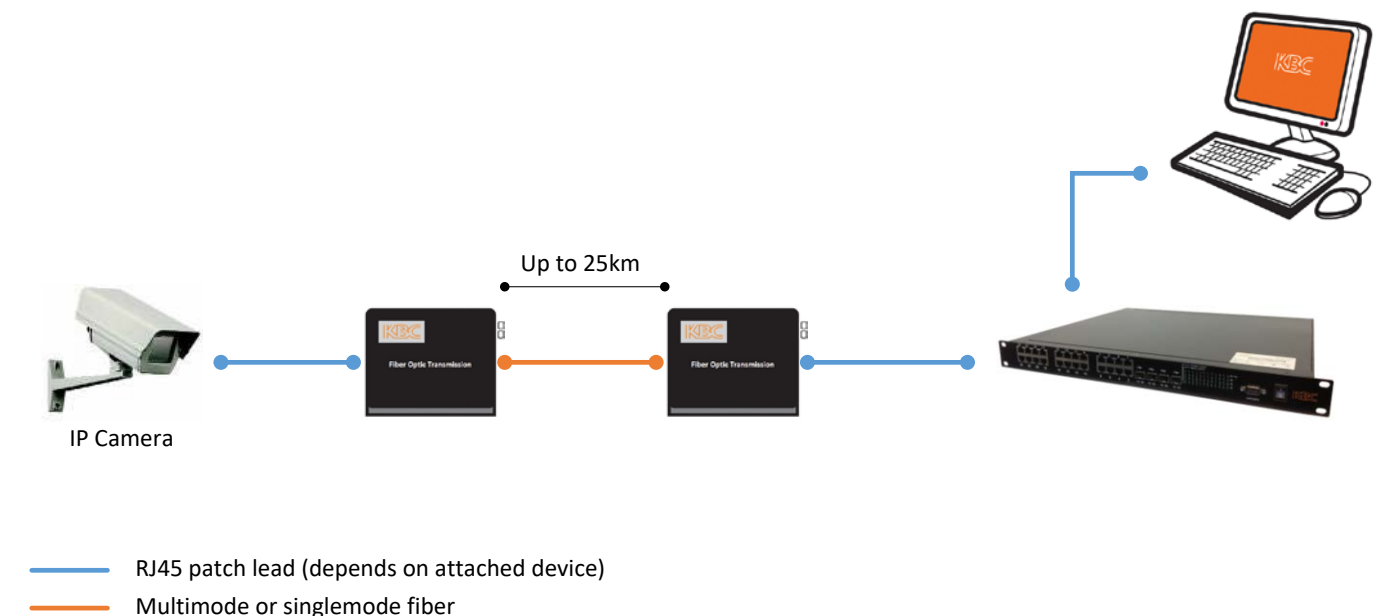
# Specifications

## Standards

| | |
|---|---|
| IEEE Standards | IEEE802.3 10Base-TX |
| | IEEE802.3u 100Base-TX |
| | IEEE802.3ab 1000Base-TX |

## Data

| | |
|---|---|
| Data Format | Ethernet |
| Data Rate | 10/100/1000Mbps Auto-Sensing Half & Full Duplex |

## Optical

| | | |
|---|---|---|
| Wavelength | 1 fiber | 1310nm/1550nm |
| | 2 fibers | 1310nm |
| Fiber | | Multimode (50/62.5/125μm) or Singlemode (9/125μm) |
| Number of Fibers | | 1 or 2 |
| Distance [1] | Multimode | 2km |
| | Singlemode | 25km |
| Optical Budget | | 15dB |

## Power

| | |
|---|---|
| Power Supply [2] | +5Vdc, 2W |

## Environmental

| | |
|---|---|
| Operating Temperature | -10° ~ +50°C / 14° ~ +122°F |
| Storage Temperature | -10° ~ +50°C / 14° ~ +122°F |
| Operating Humidity | 0 to 95% non-condensing |
| Mean Time Between Failure (MTBF) | > 100,000 Hours |

## Mechanical

| | |
|---|---|
| Dimensions Compact (L x W x H) | 76mm x 70mm x 25mm (2.98" x 2.76" x 0.98") |

## Connectors

| | |
|---|---|
| 10/100 Electrical | RJ-45 |
| Fiber [3] | SC or ST |

## Others

| | |
|---|---|
| Cable | CAT5 or CAT6, direct or cross cable |
| LEDs | Connection status and data sending & receiving |
| Warranty | 2 years |

# Part Number Configurator

MCCG1-M1A-MSA

M: Multimode
S: Singlemode

1: Single Fiber
2: Dual Fiber

Blank: 2 Fiber Version
A: 1 Fiber A End
B: 1 Fiber B End

A: US Power Plug
B: UK Power Plug
C: Euro Power Plug
E: Australian Power Plug

C: SC Connector
S: ST Connector
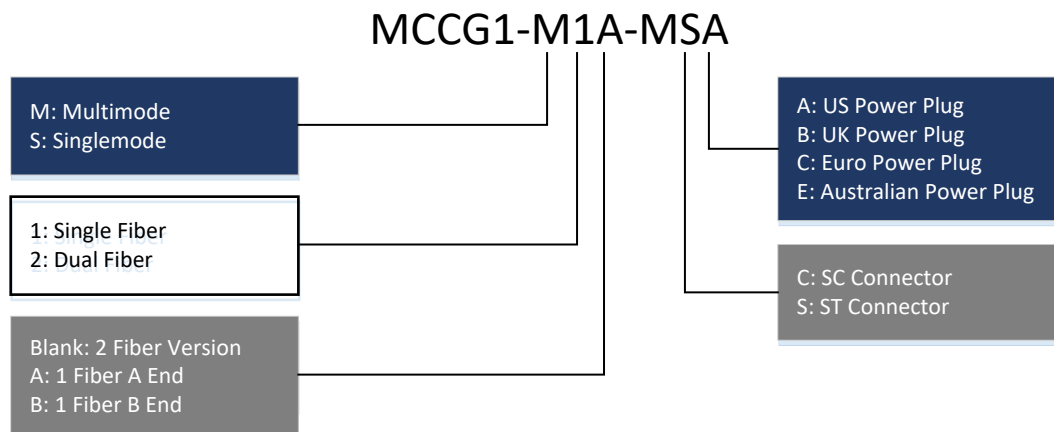
1. Transmission distance is limited by optical loss of the fiber and loss introduced by connectors, splices and patch panels. Fiber bandwidth also limits the transmission distance.
2. Please select the power plug from US Standard, Euro 2 Circular, UK 3 Pin square or Australian Standard when placing order.
3. Please select the fiber connector when placing order.