



## Product Description

The KBC MCGS1-P1N series is an industrial-grade 10/100/1000M POE Ethernet media converter with a 1000-base SFP port. It supports transmission of one channel 10/100/1000 Base-T Ethernet over the SFP port. The data can be transmitted via one or two multimode or singlemode optical fibers with full duplex operation by selecting different KBC SFP modules. This media converter supports both POE and POE+.

The MCGS1-P1N series PoE media converters are compatible with the non-POE MCGN1 series 10/100/1000M media converters. Typically, POE media converters are installed on the remote end where remote devices require POE input; however, on the head-end, the non-POE MCGN1 series media converters would be installed as POE is not needed from a media converter at the main network location. Alternatively, a remote MCGS1-P1N series media converter with a fiber optic SFP module can be directly linked to a corresponding SFP in a network switch over fiber optic cabling.

The plug-and-play design ensures straightforward installation without needing electrical or optical adjustments. LED indicators clearly show the unit's operational status. The rugged enclosure and electrical protection design make it suitable for use in harsh environments. The series is available in wall, DIN, and 2U passive rack FR2-12-NNN-B. The chassis card version FR2-16 is not available.



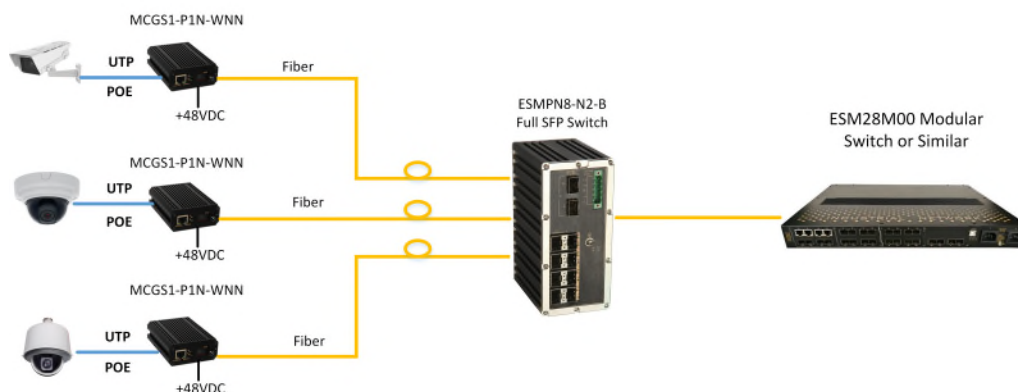
## Product Features

- 1\*10/100/1000M auto-sensing port
- 6kV Surge Protection on RJ45 electrical Port
- POE/POE+ support up to 30W
- 1\*1000Base-FX SFP port
- Compatible with non-POE version 10/100/1000M media converter MCGN1 series
- IP40 enclosure
- Wall, DIN Mount, and FR2-12-NNN-B passive Rack (rack mount tray solution sold separately)

## 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/FX IEEE802.3ab 1000Base-TX/FX IEEE802.3af, IEEE802.3at
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## Electrical

Data Port	1
Data Rate	10/100/1000Mbps Auto-Sensing Half & Full Duplex
Surge Protection	6kV

## Optical

1000Base-FX SFP Port <sup>(1)</sup>	1
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## Power <sup>(2)</sup>

Power Input	+48 ~ 57Vdc
Power consumption	<3W (without POE) 30W (with POE)

## 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

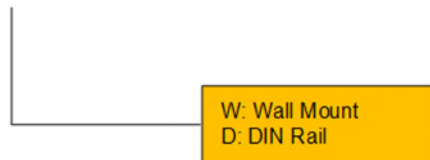
10/100/1000M Electrical Power	RJ-45 Screw Block Terminal
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## Others

Cable LEDs	CAT5 or CAT6, direct or cross cable Connection status data sending & receiving
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# Part Number Configurator

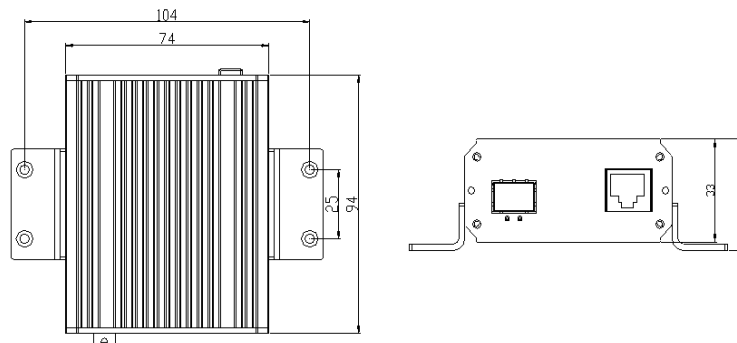
## MCGS1-P1N-?NN-B



# Dimensions

L x W x H

94mm x 74mm x 33 mm



1. SFP module sold separately. Please reference the KBC SFP module spec. (SFP-GM2-D, SFP-GS2-AD, SFP-GS1A-D and SFP-GS1B-AD are the most common compatible units.)
2. Power supply sold separately.

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