



## Product Description

The KBC FPVG16 series uses the most advanced digital technologies to provide excellent, repeatable performance for today's CCTV systems. It supports transmission of up to sixteen analog composite video channels over one multimode or singlemode optical fiber. PAL, NTSC and SECAM video standards are fully supported. The plug-and-play design ensures ease of installation with no electrical or optical adjustment needed. LED indicators are provided to clearly show the operational status of the unit.

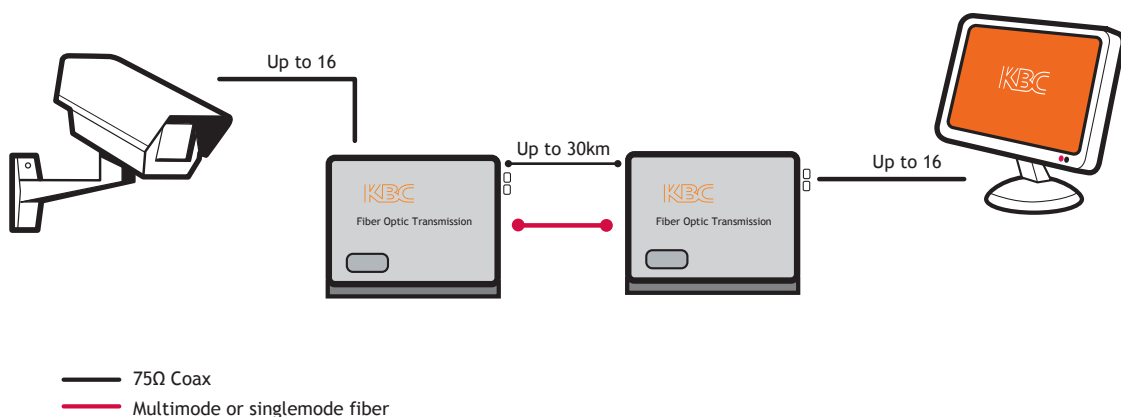


The series is available in 19" 1U rack-mount or 4U chassis card.

## Product Features

- 8 or 10 bit digitally encoded non-compressed video transmission
- Multimode and singlemode solutions
- LED indicators provide quick diagnosis of all important system parameters
- 19" 1U rack-mount or 4U chassis card configurations
- Wide optical dynamic range. No adjustment is required

## Typical System Configuration



# Specifications

## Video

No. of Channels	16	
Format	PAL / NTSC / SECAM	
Input/Output	1.0V pk-pk typical, 75Ω	
Bandwidth	5 Hz - 6.5 MHz	
Digital Encoding (non compressed)	8 bit	10 bit
Differential Gain (10-90% APL)	<2.0%	<2.0%
Differential Phase (10-90% APL)	<2.0°	<0.7°
SNR	>60dB	>67dB

## Optical

Wavelength	1310nm / 1550nm
Number of Fibers	1
Fiber	Multimode or singlemode

## Power

19" 1U module <sup>(1)</sup>	Input: 100-240Vac; Output: +12 Vdc
Chassis Card	Supplied from FR3 PSU

## Environmental

Operating Temperature	-40° - +74° C / -40° - +165° F
Storage Temperature	-40° - +74° C / -40° - +165° F
Operating Humidity	0 to 95% non-condensing
Mean Time Between Failure (MTBF)	>100,000 Hours

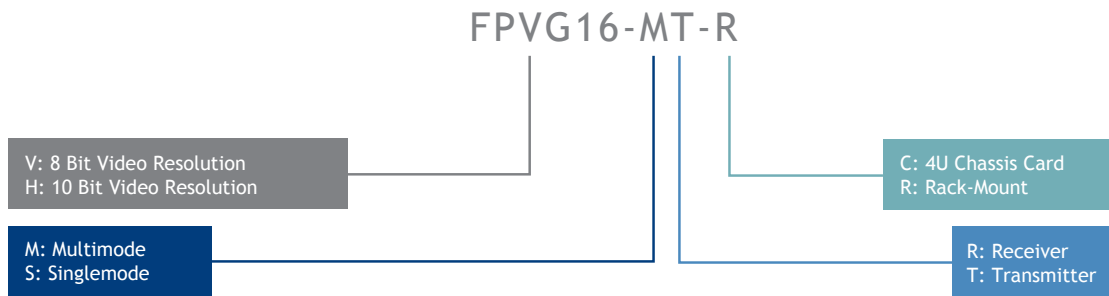
## Mechanical

Dimensions (Rack)	19" 1U
Number of 4U Chassis Card Slot <sup>(2)</sup>	4

## Connectors

Video	BNC 75Ω
Fiber	ST, SC or FC (ST fitted as standard)
Power	Screw block terminal (Wall-mount )

# Part Number Configurator



# Optical Budget

Part Code	Fiber Type	No.	Optical Budget			Wavelength nm	Approximate Transmission Distance <sup>(3)</sup>
			50µm	62.5µm	9µm		
FPVG16-M*	Multimode	1	9dB	13dB		1310	0-1km
FPVG16-S*	Singlemode	1			15dB	1310	0-30km

Transmission distances up to 70km are available please contact KBC Networks for details. All KBC Networks optical transmitters are LASER based.

1. Please select the power plug from US Standard, Euro 2 Circular or UK 3 Pin square when placing order.
2. Supports maximum of up to 14 single slot cards in each 4U Chassis.
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.

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