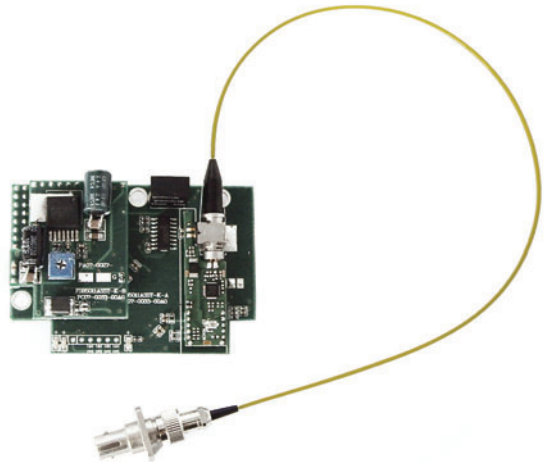




Product Description

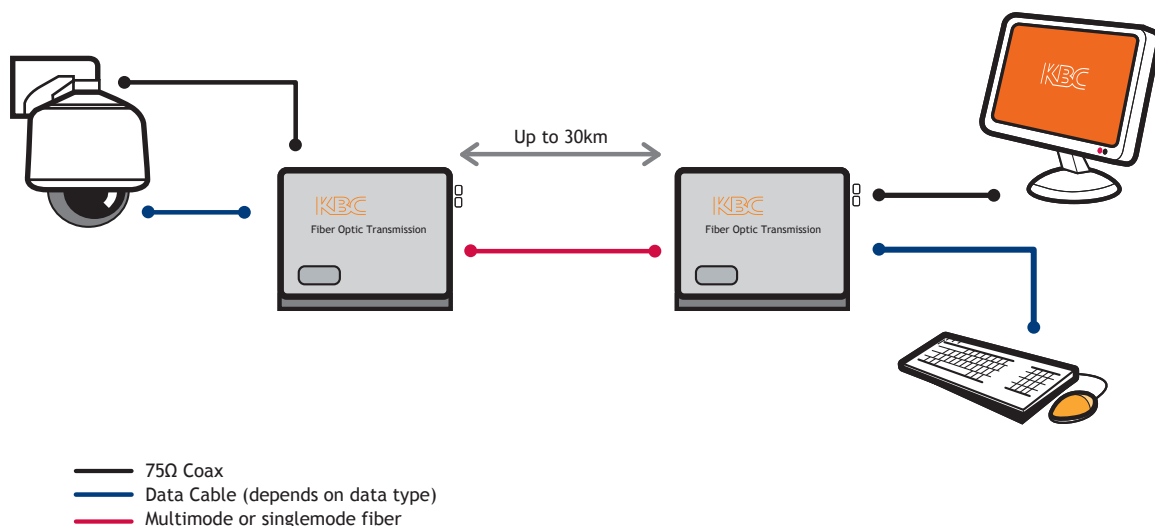
The KBC FCHA1-DB1 series uses the most advanced digital technologies to provide excellent, repeatable performance for today's CCTV systems. It supports transmission of one analog composite video channel and one bi-directional RS422 data channel or Pelco Coaxitron "Up the Coax" telemetry over one multimode or singlemode optical fiber. PAL, NTSC and SECAM video standards are fully supported. The transmitter module is designed to fit directly within the Pelco Spectra range of dome cameras and is compatible with Spectra III and Spectra IV units. The receiver module can be either wall-mount or 3U chassis card configuration.



Product Features

- Integrated transmitter module for Pelco Spectra dome cameras
- Up to 30km transmission distance
- Multimode and singlemode models
- 10 bit digitally-encoded, non-compressed, video transmission.

Typical System Configuration



Specifications

Video

No. of Channels	1
Format	PAL / NTSC / SECAM
Input/Output	1.0V p-p typical, 75Ω
Bandwidth	5 Hz ~ 6.5 MHz
Digital Encoding (non compressed)	10 bit
Differential Gain (10-90% APL)	<2.0%
Differential Phase (10-90% APL)	<2.0°
Signal to Noise Ratio (SNR) weighted	>60dB

Data

Data Formats	RS422 & Pelco Coaxitron
Two Way Channels	1
RS422	DC - 250kbps
Bit Error Rate	<1X10 ⁻¹²

Optical

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

Power

In-dome Module	Supplied directly from dome
Power Input (Wall-Mount Rx)	12-24 ac/dc @ 400mA
Power Supply ⁽¹⁾	Input: 100 ~ 240 Vac; Output: +12 Vdc UL and cUL listed PSU
Chassis Card (Rx)	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

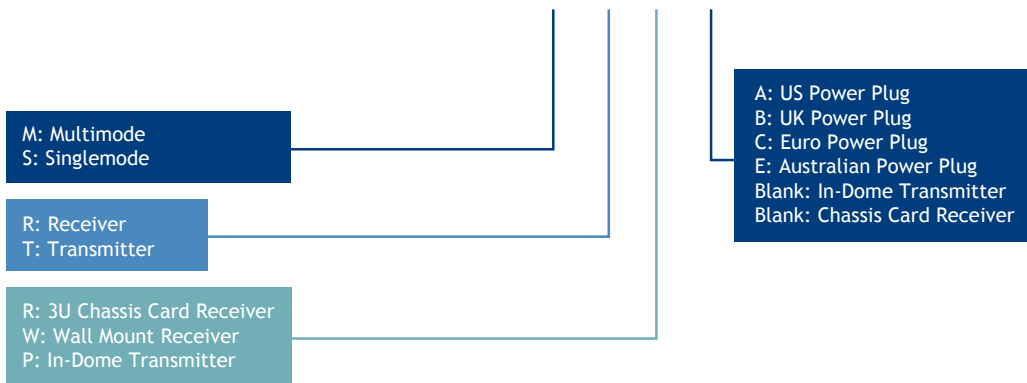
Dimensions (In-Dome Tx, L x W x H)	51mm x 74mm x 15mm (2.0" x 2.9" x 0.6")
Dimensions (Wall-Mount Rx, L x W x H) ⁽⁵⁾	155mm x 116mm x 36mm (6.1" x 4.6" x 1.4")
Number of 3U Chassis Card Slot ⁽²⁾	1

Connectors (receiver only for electrical connectors)

Video	75Ω BNC connector
Data	4 Way screw block Terminal
Fiber	ST
Power ⁽³⁾	2 Way screw block terminal

Part Number Configurator

FCHA1-DB1-M1R-WSA



Optical Budget

Part Code	Fiber Type	No.	Optical Budget			Wavelength nm	Approximate Transmission Distance ⁽⁴⁾
			50µm	62.5µm	9µm		
FCHA1-DB1-M*	Multimode	1	8dB	12dB		1310/1550nm	0-4km
FCHA1-DB1-S*	Singlemode	1			15dB	1310/1550nm	0-30km

All KBC Networks optical transmitters are LASER based.

- FCHA1 unit supports systems such as Pelco Coaxitron™, Bosch Bilinix™, Panasonic Proteus™, BBV and other leading manufacturers.
- Please select the power plug from US Standard, Euro 2 Circular or UK 3 Pin square when placing order.
- Supports maximum of up to 14 single slot cards in each 3U Chassis.
- Power lines are crimped and fitted to screw block connector in factory.
- Product body dimensions. Please contact KBC Networks for product drawing and dimensions of mount

Due to ongoing technological improvements, product specifications are subject to change without notice. KBC is not liable for any errors, omissions or changes of any description of the goods contained herein. This information is for the sole purpose of identifying the products, and KBC makes no warranty that the products conform to any description contained herein. Do not rely solely on any representations, statements, or assertions concerning these Products contained herein.