



## Product Description

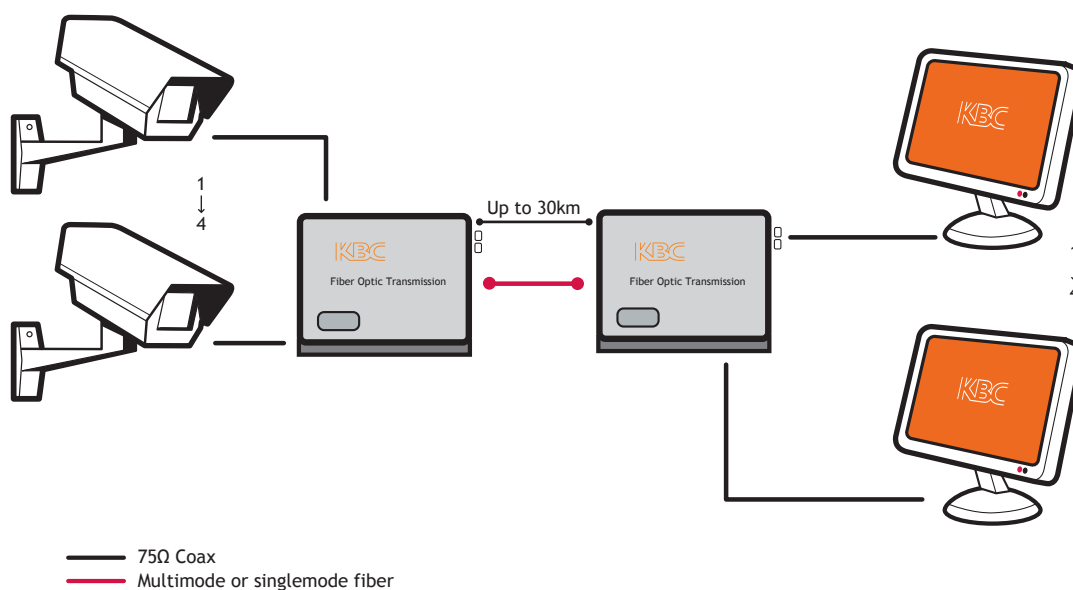
The KBC FDVA4 series uses the most advanced digital technologies to provide excellent repeatable performance for today's CCTV systems. It supports transmission of four analog composite video channel over one multimode or singlemode optical fiber. PAL, NTSC and SECAM video standards are fully supported. The plug-and-play design ensures ease of installation with no electrical or optical adjustment needed. LED indicators are provided to show the operational status of the unit clearly. The series is available in compact wall-mount or 3U chassis card.

## Product Features

- 8 or 10 bit digitally-encoded, non-compressed video transmission
- Multimode and singlemode solutions
- Card module requires just 1 slot of 3U chassis
- LED indicators provide quick diagnosis of all important system parameters
- Wall-mount and 3U chassis card configurations
- Wide optical dynamic range. No adjustment required



## Typical System Configuration



## Specifications

### Video

|                                      |                         |
|--------------------------------------|-------------------------|
| No. of Channels per Module           | 4                       |
| 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%      <2%            |
| Differential Phase (10-90% APL)      | <2°      <0.7°          |
| Signal to Noise Ratio (SNR) weighted | >60dB      >67dB        |

### Optical

|                  |                         |
|------------------|-------------------------|
| Wavelength       | 1310nm                  |
| Number of Fibers | 1                       |
| Fiber            | Multimode or Singlemode |

### Power

|                          |   |
|--------------------------|---|
| Power Input (Wall-mount) | +12 -24 Vac/dc@ 400mA   |
| Power Supply(1)          | Input: 100 ~ 240 Vac<br>Output: +12 Vdc<br>UL and cUL listed PSU<br>Supplied from FR3 PSU |
| Chassis Card             |   |

### 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               |

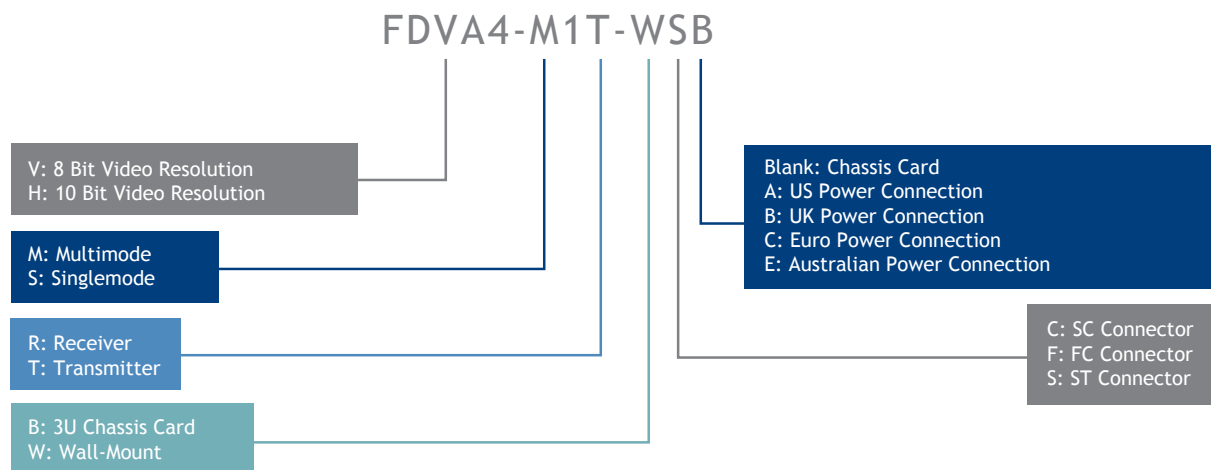
### Mechanical

|  |   |
|--|---|
| Dimensions (Wall-mount L x W x H) <sup>(5)</sup> | 222mm x 134mm x 36mm<br>(8.74" x 5.28" x 1.42") |
| Number of 3U Chassis Card Slots <sup>(2)</sup>   | 1   |

### Connectors

|                      |   |
|----------------------|---|
| Video                | BNC 75Ω                                 |
| Fiber                | ST, SC or FC<br>(ST fitted as standard) |
| Power <sup>(3)</sup> | Screw Block Terminal<br>(Wall-mount)    |

## Part Number Configurator



## Optical Budget

| Part Code | Fiber Type | No. | Optical Budget |        |      | Wavelength nm | Approximate Transmission Distance(4) |
|-----------|------------|-----|----------------|--------|------|---------------|--------------------------------------|
|           |            |     | 50μm           | 62.5μm | 9μm  |               |                                      |
| FDVA4-M*  | Multimode  | 1   | 8dB            | 12dB   |      | 1310          | 0-4km                                |
| FDVA4-S*  | Singlemode | 1   |                |        | 15dB | 1310          | 0-30km                               |

Transmission distances up to 120km 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 3U Chassis.
3. Power lines are crimped and fitted to screw block connector in factory.
4. 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.
5. Product body dimensions. Please contact KBC Networks for product drawing and dimensions of mount.

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