VDO-80101FDET/R

Fiber Optic Video & Data Transmission
8-Channel Video + 1 Duplex Data + 1 Ethernet/IP

8 Video

Audio

1 Data

1 Ethernet

System Design

Fiber Optic Video & Data Transmitter & Receiver VDO-80101FDET/R can transmission 8-Channel digital composite video, 1 duplex data, and 10M/100M Ethernet, Data support RS485, RS232, RS422 protocols. Ideal for Broadcast /Studio ,CCTV and Professional AV applications.

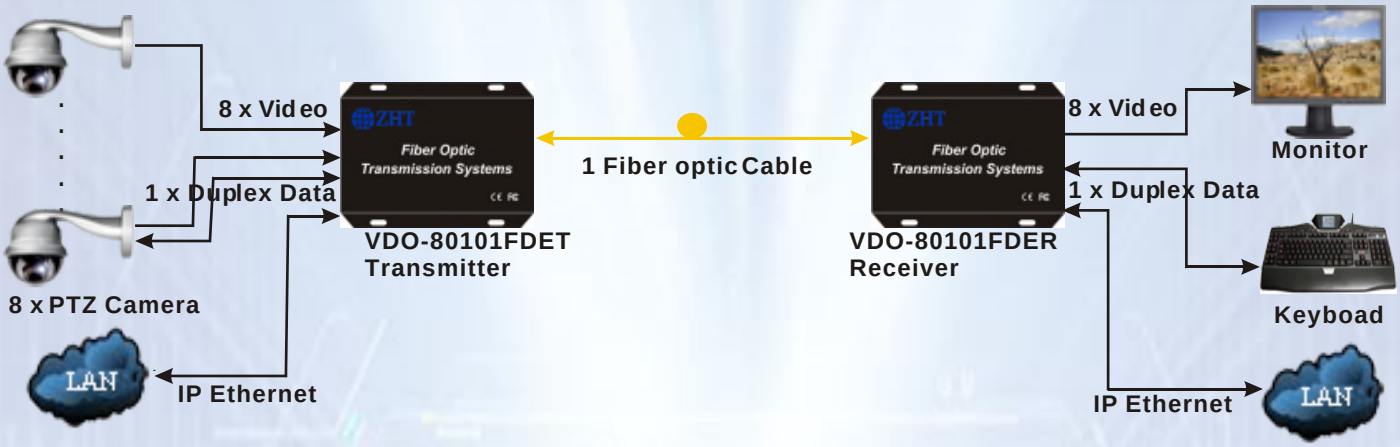
Stand-alone or rack-mount. All units of VDO-80101FDET/R come in an insert card version. The cards can be inserted into our 14-slot,19inch 4U rack-mountable card cage (VDO-CH04). One 8-Channel video card require two slots widths.

Single-Mode or Multi-Mode, VDO-80101FDET/R can support FC /PC or ST/PC Optical connector, can be used in Daisy-Chain system (Need to customize). The Transmission distance range according to the Optical Budget.

Features

- Support Point-to-Point or Daisy-Chain connection
- Uncompressed Digital Composite Video over one fiber
- Data support RS485(2-wire or 4-wire),RS232,RS422, Contact Closure
- Compatible with all PAL, NTSC,SECAM Video Systems
- Multi-mode Fiber Support for Distances up to 2.0 km
- Single-Mode Fiber Support for Distances up to 100 km
- LED Status Provide Rapid Indication of Operating Parameters
- No EMI or RFI and no ground loops
- Support Coarse Wavelength Division Multiplexing (CWDM)
- Stand alone or rack-mount
- Produce according to customer's specifications,providing OEM

Typical Configuration



Video & Data over Fiber

Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power Budget	Maximum Transmission Distance
Transmitter	Receiver				
VDO-80101FDEMT	VDO-80101FDEMR	Multi-Mode	1310nm/1550nm	10dB	1.2km
VDO-80101FDEST	VDO-80101FDESR	Single-Mode	1310nm/1550nm	12dB	20km

Note:

- The Optical Power Budget data fit Mulit-mode(62.5/125 μm),Single-Mode(9/125 μm).
- When using 50/125 μm multimode fiber, subtract 3 dB from the optical power budget.
- Optical transmission distance is limited to optical loss of the fiber and any additional loss introduced by connectors, splices and patch panels.
- Maximum transmission distance is also limited by fiber bandwidth.
- Power adapter is manufactured by third party and is supplied with fitted screw-terminal output cables.Power adapter included (for standalone) US, European, UK or Australian power plug.
- Please feel free to consult factory for any special requirement and customization

Specification

• Video

Number of Channels:	8-Channel Video
Input/output impedance:	BNC 75Ω
Input/output Compatibility:	PAL, NTSC, SECAM
Input/output voltage:	1.0 Volt p-p
Bandwidth:	6.5MHZ
Bit Resolution:	8-Bit Digital Transmission
Differential Gain:	< 1.5%
Differential Phase:	< 1.5°
Tilt:	< 5%
Signal-to-Noise Ratio(SNR):	> 67 dB

• Data

Data Formats:	RS485(2-wire or 4-wire), RS232/422,Contact Closure
Data Rate:	DC to 115.2Kbps
Bit Error Rate:	10E-9

• Ethernet/IP

Standard:	Ethernet IEEE 802.3
Data Rate:	10/100 Mbps
Connector:	RJ-45,Auto MDI/MDI-X

• Connectors

Video:	75Ω BNC (Gold Center Pin)
Data:	Terminal Block
Optical:	FC (standard), ST Optional
Stand-Alone Power:	Screw terminal block
Rack Power:	AC line cord

• Electrical & Mechanical

Input Power Requirements:	DC 5V@3A
Power Adapter:	AC 100V~240V
Power Consumption:	< 5W
Stand-Alone Dimensions:	176.5mm × 158mm × 59mm
Card for 4U Rack Dimensions:	145mm × 170mm × 45.4mm
Shipping Weight:	2.5kg (include TX & RX)

• Environmental

Operating Temperature:	-45° C~+75° C
Storage Temperature:	-45° C~+85° C
Relative Humidity:	0%~95% (non-condensing)
MTBF:	>100,000 hours

Due to continuous improvement, all products specifications are subject to change without further notice.

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