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Fiber Optic Video & Data Transmission 4-Channel Video + 1 Duplex Data + IP Ethernet



System Design

Fiber Optic Video & Data Transmitter & Receiver

VOS-40101FDET/R can transmission 4-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.

Audio

Stand-alone or rack-mount. All units of VOS-40101FDET/R come in an insert card version. The cards can be inserted into our 14-slot,19inch 4U rack-mountable card cage (VOS-CH04).





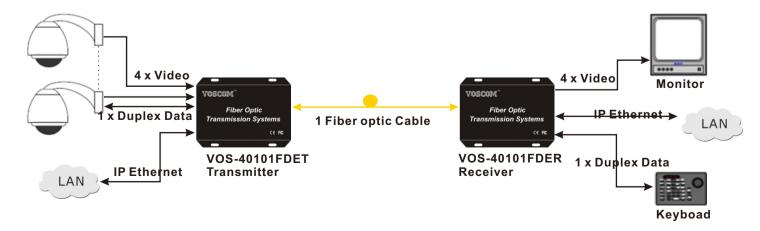


Single-Mode or Multi-Mode, VOS-40101FDET/R can support FC/PC or ST/PC Optical connector, can be used in Daisy-Chain system (Need to customize). The Transmission distance range according to the Optical Budget. Manufacturer's standard is: Single-mode 20km or Multi-mode 500m.

Features

- Support Point-to-Point or Daisy-Chain connection
- Uncompressed Composite Video over one fiber
- Compatible with AHD, HD-TVI, HD-CVI and Normal Analog Video
- Compatible with all PAL, NTSC, SECAM Video Systems
- Data support RS485(2-wire or 4-wire), RS232, RS422, Contact Closure
- Multi-mode Fiber Support for Distances up to 500m
- Single-Mode Fiber Support for Distances up to 60km
- LED Status Provide Rapid Indication of Operating Parameters
- No EMI or RFI and no ground loops
- Stand alone or rack-mount

Typical Configuration



Video & Data over Fiber

Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power	Maximum Transmission
Transmitter	Receiver	Fibel Mode	Wavelengths	Budget	Distance
VOS-40101FDEMT	VOS-40101FDEMR	Multi-Mode	1310nm/1550nm	16dB	500m
VOS-40101FDEST	VOS-40101FDESR	Single-Mode	1310nm/1550nm	12dB	20km
VOS-40101FDEST-4	VOS-40101FDESR-4	Single-Mode	1310nm/1550nm	18dB	40km
VOS-40101FDEST-6	VOS-40101FDESR-6	Single-Mode	1310nm/1550nm	25dB	60km

Note:

- The Optical Power Budget data fit Mulit-mode(62.5/125 μm),Single-Mode(9/125 μM.).
- \bullet When using 50/125 μ M. 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	• Connectors
Number of Channels: 4-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 Transmiss	Video: 75Ω BNC (Gold Center Pin) Data: Terminal Block Optical: FC/PC or ST/PC Optional Stand-Alone Power: Screw terminal block Rack Power: AC line cord
Differential Gain: < 1.5% Differential Phase: < 1.5°	• Electrical & Mechanical
Tilt: < 5% Signal-to-Noise Ratio(SNR): > 67 dB	Input Power Requirements: DC 5V@2A Power Adapter: AC 100V~240V
• Data	Power Consumption: < 3W Stand-Alone Dimensions: 172mm x 167mm x 28mm
Data Formats: RS485(2-wire or 4-wire RS232/422 Data Rate: DC to 1Mbps	Shipping Weight: 2.0kg (include TX & RX)
Bit Error Rate: 10E-9	• Environmental
• Ethernet/IP	Operating Temperature: -45°C~+75°C Storage Temperature: -45°C~+85°C
Standard: Ethernet IEEE 802.3 Data Rate: 10/100 Mbps Connector: RJ-45,Auto MDI/MDI-X	Relative Humidity: 0%~95% (non-condensing) MTBF: >100,000 hours

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