

10-Bit Digitally Encoded Fiber Optic Video Transmission 8-Channel Video + 16 Simplex Audio over Fiber

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Video

System Design

Fiber Optic Video & Audio Transmitter & Receiver
10-Bit Digitally Encoded Video & Audio Transmission
VDO-81600FFT/R-10B provides for the digital transmission of 8-Channel Composite 10-Bit Video and 16 simplex 24-Bit audio. Ideal for Broadcast/Studio, CCTV audio and Professional AV applications.



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Audio

Stand-alone or rack-mount. All units of VDO-81600FFT/R-10B 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-Ch video and 16 simplex audio card require two slots widths.

Data

Single-Mode or Multi-Mode, VDO-81600FFT/R-10B 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.

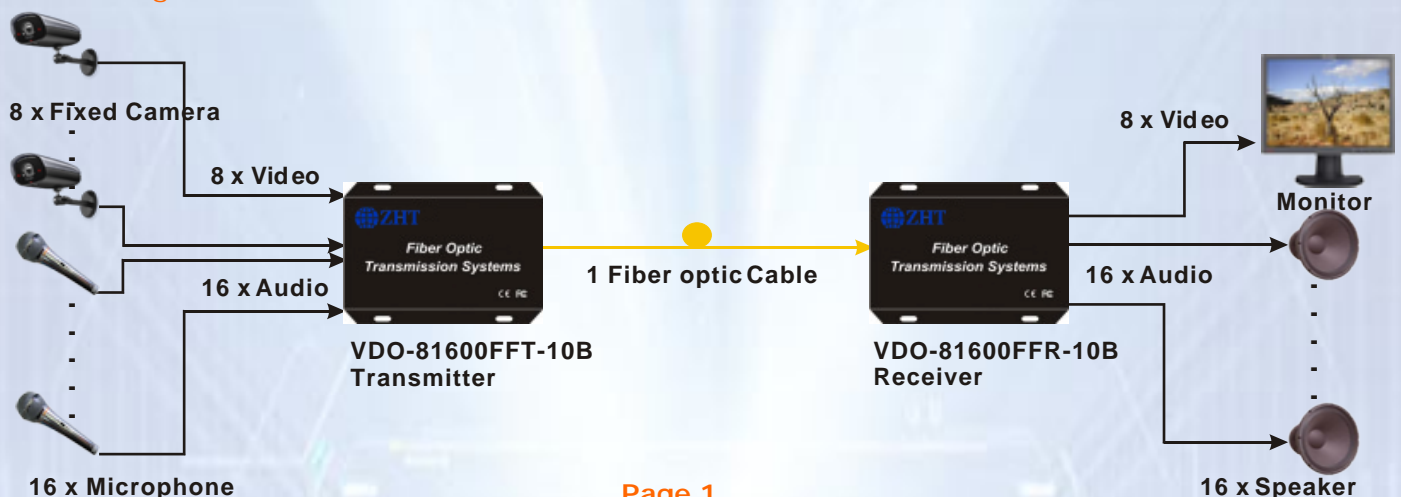


Ethernet

Features

- Support Point-to-Point or Daisy-Chain connection
- Uncompressed Digital Composite Video over one fiber
- 24-Bit Digitally Encoded Audio over one Fiber
- Compatible with all PAL, NTSC, SECAM Video Systems
- Multi-mode Fiber Support for Distances up to 1.2 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





10-Bit Digitally Encoded Video

Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power Budget	Maximum Transmission Distance
Transmitter	Receiver				
VDO-81600FFMT-10B	VDO-81600FFMR-10B	Multi-Mode	1310nm	10dB	1.2km
VDO-81600FFST-10B	VDO-81600FFSR-10B	Single-Mode	1310nm	12dB	20km

Note:

- The Optical Power Budget data fit Multit-mode(62.5/125 μ m),Single-Mode(9/125 μ m).
- 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

<ul style="list-style-type: none"> • Video <ul style="list-style-type: none"> 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: 10-Bit Digital Transmission Differential Gain: < 1.5% Differential Phase: < 1.5° Tilt: < 5% Signal-to-Noise Ratio(SNR): > 67 dB • Audio <ul style="list-style-type: none"> Number of Channels: 16 Channels Simplex Audio Audio input/output Level: 6 dBm Audio in/output impedance: 600Ω Balanced/Unbalanced Bandwidth: 10Hz ~ 20KHz Bit Resolution: 24-Bit Signal-to-Noise Ratio(SNR): > 80 dB 	<ul style="list-style-type: none"> • Connectors <ul style="list-style-type: none"> Video: 75Ω BNC (Gold Center Pin) Audio: RJ-45 Optical: FC (standard), ST Optional Stand-Alone Power: Screw terminal block Rack Power: AC line cord • Electrical & Mechanical <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> Operating Temperature: -45° C~+75° C Storage Temperature: -45° C~+85° C Relative Humidity: 0%~95% (non-condensing) MTBF: >100,000 hours
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Due to continuous improvement, all products specifications are subject to change without further notice.

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