

HDMI Fiber Optic Extender HDMI with Audio, Rs232 & USB for KVM

System Design

HDMI Fiber Optic Extender

VOS-1HDMI-ADUT/R can transmit your HDMI, audio, data & USB signal up to 10km over single-mode fiber, or up to 300 m over multi-mode fiber. requires no adjustments, equalization or de-skewing during installation. plug and play connection between Apple TV 4K, Fire TV Stick 4K, nVidia Shield TV, game console, or other professional video.

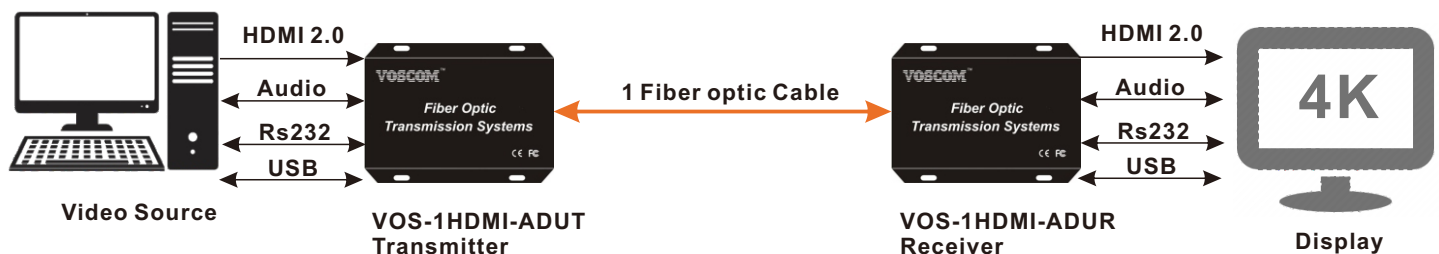
The Fiber Extender support HDMI 2.0, resolution up to 4K 60Hz (4:4:4), 4K 30Hz (4:4:4), Backward compatible. EDID is managed by maintaining continuous EDID communication with the source, ensuring that it powers up properly and maintains video output. For HDMI signals with protected content, the VOS-1HDMI-ADUT/R continuously authenticates HDCP compliance to support quick and reliable transmission, designed to solve the installers common problems with long distance HDMI transmission.



Features

- Support uncompressed HDMI 2.0, HDCP 2.2, up to 18Gbps
- Support 4K 60Hz (4:4:4), 4K 30Hz (4:4:4), Backward compatible
- Support Bi-directional independent stereo audio with 3.5mm jack
- Support 1 Duplex Rs232 and USB for KVM control
- Dual EDID modes (built-in + manual learning) with button switching
- Support EDID memory retention after power-off
- Support Sing-mode 10km or Multi-mode 300m
- Support lossless embedded audio like Dolby TrueHD and TDS-HD
- LED Status Provide Rapid Indication of Operating Parameters
- Plug and play

Typical Configuration



HDMI Fiber Optic Extender

Ordering Information

Part Number	Description
VOS-1HDMI-ADUT/R	1-Channel uncompressed HDMI 2.0 + Stereo Audio + Rs232 + USB Tx & Rx 4K@60Hz 4096×2160, 3840x2160 (4:4:4 / 4:2:2 / 4:2:0), 4K@30Hz 4096×2160, 3840x2160 (4:4:4 / 4:2:2 / 4:2:0), 1080p

Specification

• HDMI	• Optical
HDMI Version: HDMI 2.0 HDMI Connector: HDMI Female Data Rate: 18Gbps Compliance: HDCP 2.2 Max Resolution: 4K 60Hz 4:4:4 4K 30Hz 4:4:4 (Backward compatible)	Connector: LC (SFP) Fiber Type: Single-mode 10km, Multi-mode 300m Tx Output Power: >-3dB Receiver Sensitivity: >-10dB
• Audio	• Electrical & Mechanical
Number of Channels: 1-Ch Duplex Stereo Audio Connector: 3.5mm TRS Jack Audio input/output Level: +4dBu nominal Audio Type: Unbalanced, Line Level Audio in/output impedance: 600Ω Frequency Response: 20Hz ~ 20KHz Sample Rate: 48KHz, 24K bit rate Signal-to-Noise Ratio(SNR): 96dB Distortion: <0.05%	Input Power Requirements: DC12V1A Power Adapter: AC 100V~240V Power Connector: DC Power Connector Power Consumption: <3W Dimensions: 163mm x 100mm x 29mm Shipping Weight: 1.2kg
• Data	
Number of Channels: 1-Ch Duplex Rs232 Data Connector: 3-pin Terminal Block Data Formats: Rs232 Data Data Rate: DC to 115.2Kbps Bit Error Rate: < 10E-9	
• USB (KVM)	• Environmental
USB Version: 1.1 USB Connector: Type B x1 (Transmitter) Type A x2 (Receiver)	Operating Temperature: -20°C ~ +70°C Storage Temperature: -40°C ~ +85°C Relative Humidity: 0%~95% (non-condensing) MTBF: >100,000 hours