HDMI Fiber Optic Extender
Uncompressed HDMI with Rs232 Data, 4K@30Hz

1 HDMI

Audio

1 Rs232

USB

System Design

HDMI Fiber Optic Extender

VOS-1HDMI-DT/R can transmit your HDMI, Rs232 data signals 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.
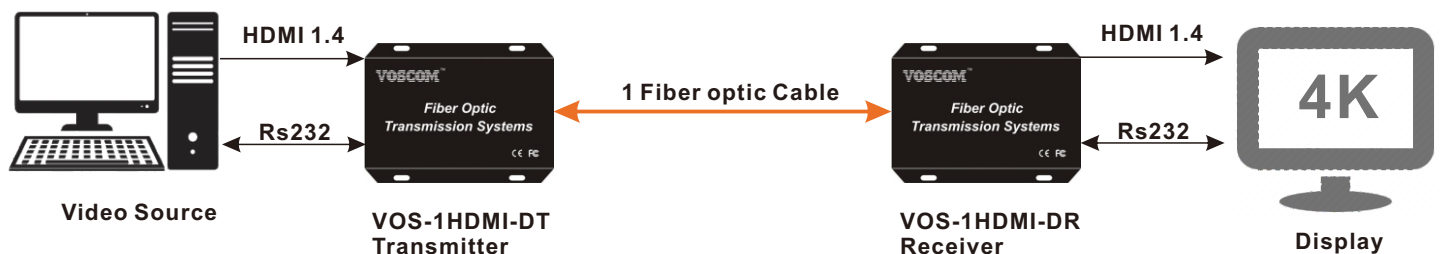
The Fiber Extender support HDMI 1.4, resolution up to 4K 30Hz (4:4:4), Backward compatible. EDID is managed by maintaining continuous EDID communication with the source, ensuring that it powers up properly and maintains video output. For HDMI signals with protected content, the VOS-1HDMI-DT/R continuously authenticates HDCP compliance to support quick and reliable transmission, desinged to solve the installers common problems with long distance HDMI transmission.

Features

- Support uncompressed HDMI 1.4 over Fiber.
- Support 4K 30Hz (4:4:4), Backward compatible
- Support 1 Duplex Rs232 serial data for 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 1.4

Rs232

1 Fiber optic Cable

HDMI 1.4

4K

Rs232

Video Source

VOS-1HDMI-DT Transmitter

VOS-1HDMI-DR Receiver

Display

Ordering Information

Part Number	Description
VOS-1HDMI-DT/R	1-Channel uncompressed HDMI 1.4 + 1 Duplex Rs232 Data, Tx & Rx 4K@30Hz 4096×2160，3840x2160 (4:4:4 / 4:2:2 / 4:2:0), 1080p

Specification

• HDMI

HDMI Version:	HDMI 1.4
HDMI Connector:	HDMI Female
Data Rate:	10.2Gbps
Compliance:	HDCP 2.0
Max Resolution:	4K 30Hz 4:4:4 (Backward compatible)

• Optical

Connector:	LC (SFP)
Fiber Type:	Single-mode 10km, Multi-mode 300m
Tx Output Power:	>-3dB
Receiver Sensitivity:	>-10dB

• 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

• Electrical & Mechanical

Input Power Requirements:	DC12V1A
Power Adapter:	AC 100V~240V
Power Connector:	DC Power Connector
Power Consumption:	<3W
Dimensions:	104mm x 103mm x 28mm
Shipping Weight:	1.0kg

• Environmental

Operating Temperature:	-20°C ~ +70°C
Storage Temperature:	-40°C ~ +85°C
Relative Humidity:	0%~95% (non-condensing)
MTBF:	>100,000 hours