# Voscom

### HD-SDI Fiber Optic Extender 1-Channel HD-SDI + 2 Duplex Audio + 1 Duplex Data



#### System Design

VOS-1HD-ADT/R provides for the digital transmission of 1-Channel uncompressed 1.485 Gbps HD-SDI (SMPTE 292) or 270 Mbps SD-SDI (SMPTE 259M) 1080p HD video over fiber, support 2 duplex analog audio, 1 duplex RS232/RS485 data, also support one loopback output for local display, and dual outputs for two displays in the remote end.







Single-Mode or Multi-Mode, VOS-1HD-ADT/R can support FC/PC or ST/PC optical connector, the transmission distance range according to the Optical Budget. Manufacturer's standard is: Single-mode 20km, Multi-mode 300m.

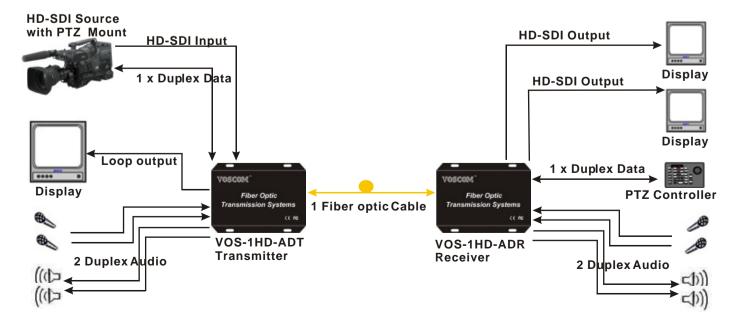


#### Ethernet

#### Features

- Extends uncompressed HD-SDI or SD-SDI video over fiber
- Supports SMPTE 292M, SMPTE 259M or DVB-ASI compliant
- Supports embedded digital audio stream
- Multi-mode Fiber Support for Distances up to 300m
- Single-Mode Fiber Support for Distances up to 20 km
- Real-Time Video Transmission for Exceptional Quality and Resolution
- No EMI or RFI and no ground loops

#### Typical Configuration



## **HD-SDI Fiber Optic Extenders**

#### Ordering Information

Model I	Number Receiver	Fiber Mode	Wavelengths	Optical Power Budget	Maximum Transmission Distance
VOS-1HD-ADMT	VOS-1HD-ADMR	Multi-Mode	1310nm/1550nm	16dB	300m
VOS-1HD-ADST	VOS-1HD-ADSR	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  $50/125~\mu m$  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		
Data Rate: Standards: Max Resolution:	els: 1-Ch HD-SDI or SD-SDI ate: 1.485 Gbps; 270 Mbps rds: SMPTE 292M, SMPTE 259M or DVB-ASI ion: 1920 x 1080 @ 60Hz ion: Automatic up to 200m at 1.485 Gbps and 350m at 270 Mbps of Belden 1694A css: > 15dB to 1.485Gbps:	Audio Connector: Data Connector: Optical Connector:	Terminal Block FC/PC or ST/PC Optional Screw terminal block	
		• Electrical & Mechanical		
Return Loss:		Input Power Requirements:		
• Audio		Power Adapter: Power Consumption:	AC 100V~240V < 5W	
Number of Channels: 2-0 Audio in/output impedance: 60 Bandwidth: 20		Card for 4U Rack Dimensions:	$200 \text{mm} \times 135 \text{mm} \times 38 \text{mm}$ $145 \text{mm} \times 170 \text{mm} \times 20 \text{mm}$ 2.5 kg (include TX & RX)	
	Bit Resolution: 24-Bit Signal-to-Noise Ratio(SNR): > 80 dB			
• Data	а		-45° C~+75° C -45° C~+85° C	
	1-Channel Duplex RS232 & RS485 Data DC to 115.2Kbps 10E-9	,	0%~95% (non-condensing) >100,000 hours	

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