

1-Channel Duplex HD-SDI + 2 Duplex Audio + 1 Duplex Data + 1 Duplex or 2 Simplex Contact Closure + IP Ethernet

1  
HD-SDI

2  
Audio

1  
Data

1 OR 2  
Contact Closure

1  
Ethernet

### System Design

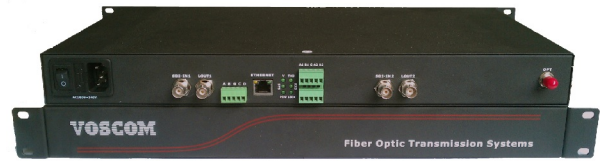
VOS-1DHD-ADCET/R provides for the digital transmission of 1-Channel uncompressed duplex HD-SDI (SMPTE 292) or 270Mbps SD-SDI (SMPTE 259M) 1080p HD video over fiber, support 2 duplex analog audio, 1 duplex Rs232/Rs485 data, 1 duplex or 2 simplex contact closure and 1-channel 10M/100M IP Ethernet, also support one loopback output for local display, and dual outputs for two displays in the remote end. This unit only can support 19inch 1U Rack.

Single-Mode or Multi-Mode, VOS-1DHD-ADCET/R can support FC/PC or ST/PC optical connector, the transmission distance range according to the Optical Budget.

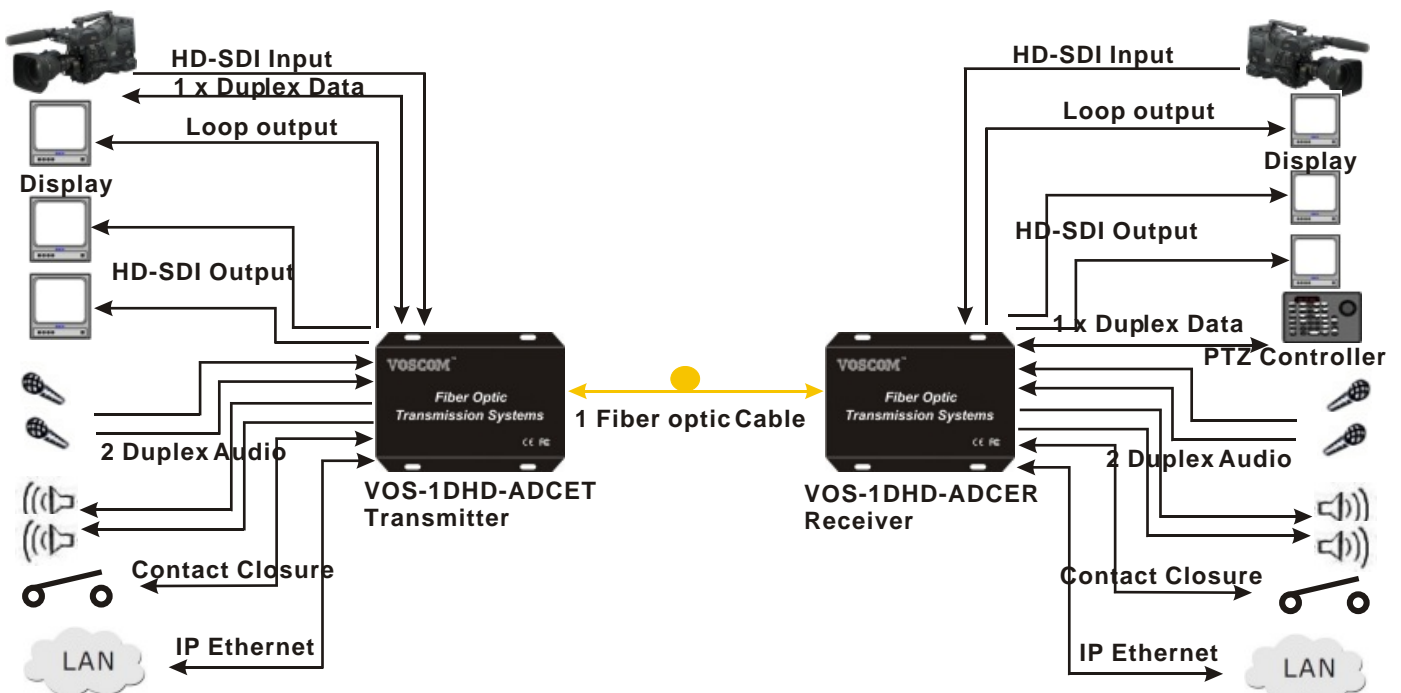
Manufacturer's standard is: Single-mode 20km, Multi-mode 300m.

### 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



### Typical Configuration



# HD-SDI Fiber Optic Extenders

## Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power Budget	Maximum Transmission Distance
Transmitter	Receiver				
VOS-1DHD-ADCEMT	VOS-1DHD-ADCEMR	Multi-Mode	1310/1470/1550nm	16dB	300m
VOS-1DHD-ADCEST	VOS-1DHD-ADCESR	Single-Mode	1310/1470/1550nm	12dB	20km

**Note:**

- The Optical Power Budget data fit Multit-mode(62.5/125 μm), Single-Mode(9/125 μm).
- When using 50/125 μm multimode fiber, subtract 3 dB from the optical power budget.

## Specification

<p>• Video</p> <p>Number of Channels: 1-Channel Duplex HD-SDI            Data Rate: 1.485 Gbps; 270 Mbps            Standards: SMPTE 292M, SMPTE 259M or DVB-ASI            Max Resolution: 1920 x 1080 @ 60Hz            Equalization: Automatic up to 200m at 1.485 Gbps and 350m at 270 Mbps of Belden 1694A            Return Loss: &gt; 15dB to 1.485Gbps</p>	<p>• Data</p> <p>Data Formats: 1-Channel Duplex RS232 &amp; Rs485 Data            Data Rate: DC to 115.2Kbps            Bit Error Rate: 10E-9</p>
<p>• Audio</p> <p>Number of Channels: 2-Ch Duplex Analog Audio            Audio in/output impedance: 600 Ohm Unbalanced            Bandwidth: 20Hz ~ 20KHz            Bit Resolution: 24-Bit            Signal-to-Noise Ratio(SNR): &gt; 80 dB</p>	<p>• Ethernet/IP</p> <p>Standard: Ethernet IEEE 802.3            Data Rate: 10/100 Mbps            Connector: RJ-45, Auto MDI/MDI-X</p>
<p>• Contact Closure *</p> <p>Number of Channels: 1-Channel Duplex CC or 2-Channel Simplex CC            Data Formats: Contact Closure, TTL            Data Rate: DC to 200Kbps            Response Time: 2 ms            Relay/Contact Rating: 0.5A@(125VAC/30VDC)            Bit Error Rate: &lt; 10E-9</p>	<p>• Connectors</p> <p>Video Connector: 75 Ohm BNC (Gold Center Pin)            Audio Connector: Terminal Block            Data Connector: Terminal Block            Optical Connector: FC/PC or ST/PC Optional            Stand-Alone Power: Screw terminal block            Rack Power: AC line cord</p>
	<p>• Electrical &amp; Mechanical</p> <p>Input Power Requirements: DC 5V@4A            Power Adapter: AC 100V~240V (Built-in)            Power Consumption: &lt; 10W            19inch 1U Dimensions: 483mm × 255mm × 46mm            Shipping Weight: 8kg (include TX &amp; RX)</p>
	<p>• Environmental</p> <p>Operating Temperature: -45° C ~ +75° C            Storage Temperature: -45° C ~ +85° C            Relative Humidity: 0%~95% (non-condensing)            MTBF: &gt;100,000 hours</p>

\* Note: the device can support 2 simplex or 1 duplex contact closure, but it only can be configured by factory, so you need to choose the configuration before the order.