

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

1 →
HD-SDI

System Design

VOS-1HD-ADCET/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, 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.

↔ **2** ↔
Audio

↔ **1** ↔
Data

Stand-alone or rack-mount. VOS-1HD-ADCET/R can come in an insert card version. The cards can be inserted into our 16-slot, 19inch 4U rack-mountable (VOS-CH04-HD16).

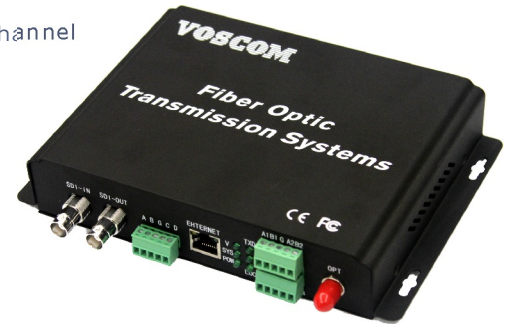
↔ **1** ↔ OR **2** ↔
Contact Closure

Single-Mode or Multi-Mode, VOS-1HD-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.

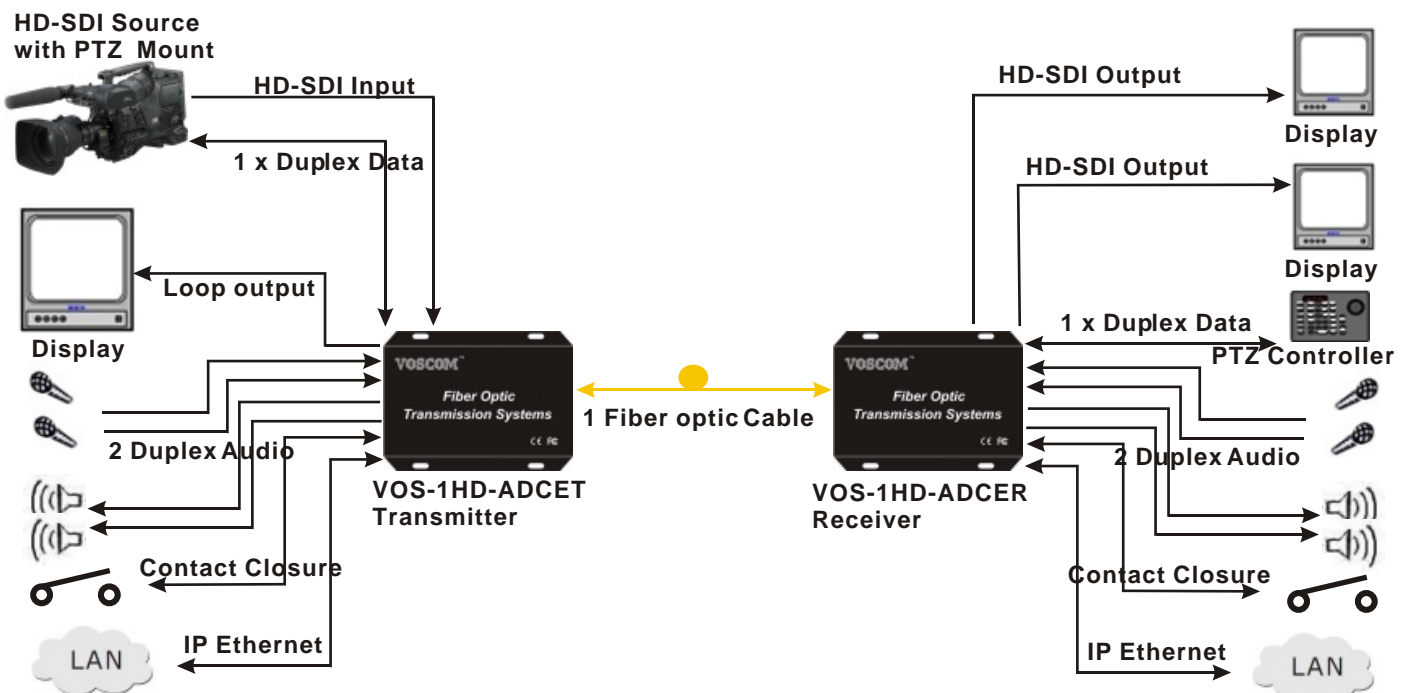
↔ **1** ↔
Ethernet

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



Typical Configuration



HD-SDI Fiber Optic Extenders

Ordering Information

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

<ul style="list-style-type: none"> • Video <ul style="list-style-type: none"> Number of Channels: 1-Ch HD-SDI or SD-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: > 15dB to 1.485Gbps: 	<ul style="list-style-type: none"> • Data <ul style="list-style-type: none"> Data Formats: 1-Channel Duplex RS232 & RS485 Data Data Rate: DC to 115.2Kbps Bit Error Rate: 10E-9
<ul style="list-style-type: none"> • Audio <ul style="list-style-type: none"> 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): > 80 dB 	<ul style="list-style-type: none"> • Ethernet/IP <ul style="list-style-type: none"> Standard: Ethernet IEEE 802.3 Data Rate: 10/100 Mbps Connector: RJ-45, Auto MDI/MDI-X
<ul style="list-style-type: none"> • Contact Closure * 	<ul style="list-style-type: none"> • Connectors <ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> 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: < 10E-9 	<ul style="list-style-type: none"> • Electrical & Mechanical <ul style="list-style-type: none"> Input Power Requirements: DC 5V@2A Power Adapter: AC 100V~240V Power Consumption: < 5W Stand-Alone Dimensions: 200mm × 135mm × 38mm Card for 4U Rack Dimensions: 145mm × 170mm × 20mm Shipping Weight: 2.5kg (include TX & RX)
<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.</p>	<ul style="list-style-type: none"> • 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