

**4**  
3G-SDI

### 3G-SDI Fiber Optic Extender 4-Channel 3G-SDI /HD-SDI over Fiber

#### System Design

**VOS-4H3G-T/R** provides for the digital transmission of 4-Channel uncompressed 3G-SDI, HD-SDI or SD-SDI 1080p video over fiber

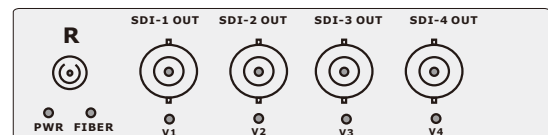
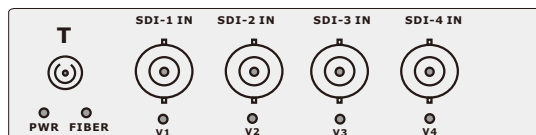
**Stand-alone or rack-mount.** All 3G-SDI video over Fiber of VOS-4H3G-T/R comes in an insert card version. The cards can be inserted into our 16-slot, 19inch 4U rack (VOS-CH04).



Audio

Data

#### Panel

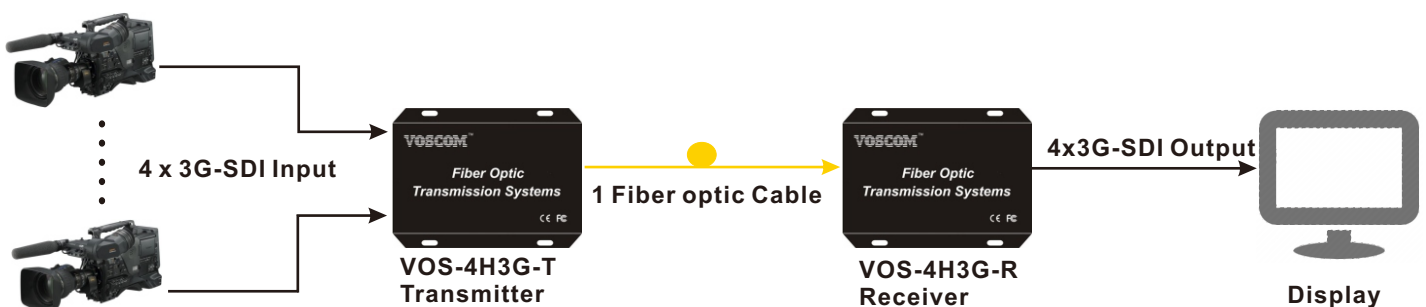


Ethernet

#### Features

- Multi-channel 3G-SDI transmission over one core fiber with CWDM
- Support SMPTE 424M / 292M / 259M or DVB-ASI compliant
- Automatic detection and re-clocking of 3G, 1.5G, 270M SDI data rates
- Supports embedded digital audio stream
- Coax inputs are equalized(EQ), Coax outputs are with driving function (CD)
- Standard SFP Module with LC connector support Single-mode 20km
- LED Status Provide Rapid Indication of Operating Parameters
- No EMI or RFI and no ground loops
- Stand alone or rack-mount

#### Typical Configuration



# 3G-SDI Fiber Optic Extenders

## Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power Budget	Maximum Transmission Distance
Transmitter	Receiver				
VOS-4H3G-T	VOS-4H3G-R	Single-Mode	1470~1610nm	12dB	20km

### Note:

- The Optical Power Budget data fit Multit-mode(62.5/125  $\mu$ m), Single-Mode(9/125  $\mu$ m).
- 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

Number of Channels: 4-Channel 3G-SDI

Data Rate: 270 Mbps, 1.483 Gbps, 1.485 Gbps, 2.967 Gbps, 2.970 Gbps, - Auto Select

Standards: SMPTE 424M (3G-SDI), SMPTE 292M (HD-SDI), SMPTE 259M (SD-SDI)

Max Resolution: 1080p @ 60Hz

### • Optical

Optical Connector: ST, FC or LC optional  
Wavelengths: 1470nm~1610nm  
Fiber Type: Single-Mode, Single-Fiber  
Rate: 3Gbps  
Tx Output Power: >-6dB  
Receiver Sensitivity: >-14dB

### • Electrical & Mechanical

Input Power Requirements: DC 5V@2A  
Power Adapter: AC100V~240V  
Power Consumption: <3W  
Stand-Alone Dimensions: 192mm x 167mm x 28mm  
Shipping Weight: 2.0kg (include TX & RX)

### • Connectors

Video Connector: 75 Ohm BNC (Gold Center Pin)  
IEC169-8 standard  
Optical Connector: ST, FC or LC optional  
Power Connector: DC Power Connector

### • Environmental

Operating Temperature: -20°C ~+75°C  
Storage Temperature: -40°C~+85°C  
Relative Humidity: 0%~95% (non-condensing)  
MTBF: >100,000 hours