

2 → 3G-SDI

3G-SDI Fiber Optic Extender 2-Channel 3G-SDI /HD-SDI over Fiber

System Design

VOS-2H3G-T/R provides for the digital transmission of 2-Channel uncompressed 3G-SDI, HD-SDI or SD-SDI 1080p video over fiber and support one loop output for local display, dual outputs for two displays in the remote end.

Stand-alone or rack-mount. All 3G-SDI video over Fiber of VOS-2H3G-T/R comes in an insert card version. The cards can be inserted into our 16-slot, 19inch 4U rack (VOS-CH04).

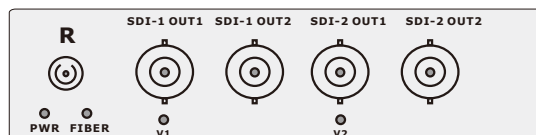
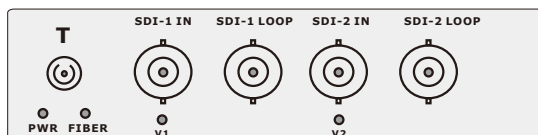


Audio

Data

Ethernet

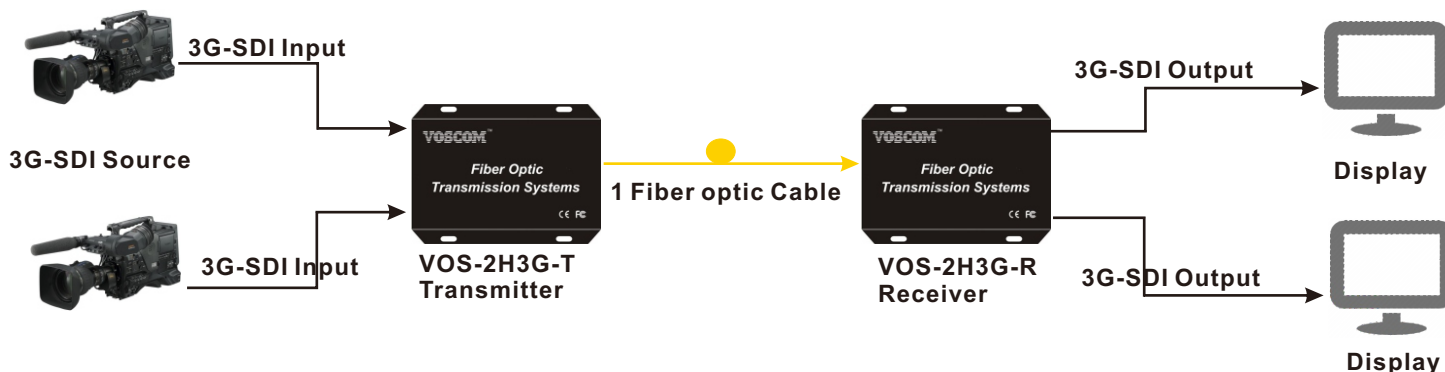
Panel



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-2H3G-T	VOS-2H3G-R	Single-Mode	1310/1470nm	12dB	20km

Note:

- The Optical Power Budget data fit Multimode(62.5/125 μ m), Single-Mode(9/125 μ m).
- When using 50/125 μ 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: 2-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: 1310/1470nm
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