

VOSCOM's 12G-SDI / 3G-SDI Fiber Optic Extender provides for the digital transmission of fully uncompressed 12G-SDI, 6G-SDI, 3G-SDI & HD-SDI over fiber. support 4K UHD, 1080p video, use our 4-Channel 12G-SDI even can support 8K Video.

12G-SDI Fiber Optic Extender is an excellent choice for transporting SMPTE 2082 (12G-SDI), SMPTE 2081(6G-SDI), SMPTE 424M (3G-SDI), SMPTE 292M (HD-SDI), SMPTE 259M (SD-SDI), DVB-ASI compliant video signals over long or short distances with one fiber. In addition, the system also support Balanced or Unbalanced audio, RS422 / RS485 / RS232 serial data, Loopback output, Contact Closure and IP Ethernet transmission.

Also can customize GENLOCK, Time Code, Return Analog Video, Return 12G/3G-SDI, Remote Control, Intercom (HEADSET), Balanced Audio with XLR connector, Tally, etc.

Features

- Available in 12G-SDI and 3G-SDI Versions.
- 1~16 x Camera Feeds & 8x SDI Return Channels
- Tri-Level or Bi-Level Genlock Output
- 8x Mic Level Inputs / outputs with Phantom Power
- 8x Line Level Analog Audio Inputs / outputs
- 8x Digital Audio AES/EBU Inputs / outputs
- 1~4 x RS-232/422/485 Serial Data Channels
- 1~4 x Contact Closure for Tally
- 1~4 x Gigabit Ethernet LAN Extensions

Applications

- Truck to Control Room Links
- Control Room to Studio Links
- Outside Broadcast "B-Unit" Interconnects
- Live Music & Entertainment
- Live Cinematic Multi-cam
- Live Sports Broadcast
- ENG, EFP
- High-Definition Video Surveillance
- High-Definition Pro Audio Visual



12G-SDI with Remote & Tally
V-mount



Duplex 12G-SDI



3G-SDI + Data + Ethernet



4-Channel 12G-SDI



16-Channel 12G-SDI
19inch 1U



8 x 3G-SDI + 2 x Balanced Audio
+ 2 x Gigabit Ethernet

VOSCOM 12G/3G-SDI Fiber Optic Converters offer customized solutions, with multiple functions, interfaces, and sizes for customers to choose from. Particularly in the broadcast and television industry, different cameras have distinct requirements for the functions, interfaces, and sizes of fiber optic converters. Our products adopt a modular design, which enables us to meet customers' diverse needs quickly and conveniently.

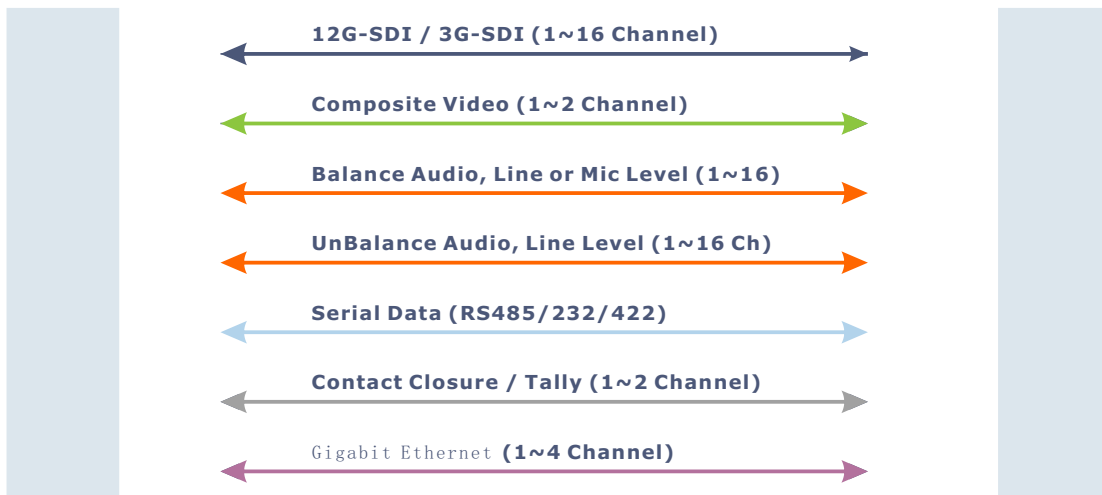
You can freely configure according to the functions, interfaces, and sizes below, and then contact us.

Multiple Functions:






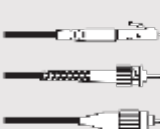


Transmitter

Support Signals

Receiver



Multiple Interfaces:

TERMINAL BLOCK  UNBALANCED AUDIO LINE LEVEL	RCA  UNBALANCED AUDIO LINE LEVEL	3.5mm TRS  UNBALANCED AUDIO STEREO AUDIO	XLR  BALANCED AUDIO LINE LEVEL	XLR-COMBO  BALANCED AUDIO MICROPHONE LEVEL
 LC, ST or FC Fiber Optic Connector	 SMPT 304M Fiber Hybrid Connector	 ODC Fiber Connector		

Multiple sizes:

 V-mount	 Stand-alone	 19inch 1U Rack	 19inch 2U Rack
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Specification

<p>• Digital Video</p> <p>Number of Channels: 1~16 Channels 12G/3G-SDI Connector: 75 Ohm BNC (Gold Center Pin) Data Rate: 12Gbps, 6Gbps, 3Gbps, 1.5Gbps, 270Mbps, Standards: SMPTE 2082(12G-SDI), SMPTE 2081(6G-SDI), SMPTE 424M (3G-SDI), SMPTE 292M (HD-SDI), SMPTE 259M (SD-SDI)</p>	<p>• Unbalanced Audio</p> <p>Number of Channels: 1~16 Channels Connector: Terminal Block / RCA / 3.5mm Audio input/output Level: +4dBu nominal Audio Type: Unbalanced, Line Level Audio in/output impedance: 600Ω Frequency Response : 20Hz ~ 20KHz Signal-to-Noise Ratio(SNR): > 82 dB Distortion: <0.05%</p>
<p>• Analog Video, CVBS</p> <p>Number of Channels: 1~2 Channels Connector: 75 Ohm BNC (Gold Center Pin) Type: Analog NTSC, PAL</p>	<p>• Balanced Audio</p> <p>Number of Channels: 1~16 Channels Connector: XLR Audio input/output Level: +4dBu nominal Audio Type: Balanced, Line / Mic Level Audio in/output impedance: 600Ω Frequency Response : 20Hz ~ 20KHz Signal-to-Noise Ratio(SNR): > 90 dB Distortion: <0.05%</p>
<p>• Video, Genlock</p> <p>Number of Channels: 1-Channel Connector: 75 Ohm BNC (Gold Center Pin) Type: Analog Black Burst (NTSC, PAL), HD Tri-Level</p>	<p>• AES/EBU</p> <p>Number of Channels: 1~16 Channels Standards: AES3, IEC60958, S/PDIF, EIAJCP1201 Input Level: 0.2 to 10V p-p, 110Ω Output Level: 2 to 7V p-p, 110Ω In/output impedance: 110Ω (Balanced) Input Sample Rate : 32 to 96 khz Output Sample Rate : 48 khz Return Loss: >15db, 100 khz to 6 Mhz Output Jitter: <20ns</p>
<p>• Time Code</p> <p>Number of Channels: 1-Channel Input: Unbalanced, 15Vp-p max Output: Unbalanced, 3Vp-p</p>	<p>• Ethernet</p> <p>Number of Channels: 1~4 Channels Data Rate: 100/1000Mbps Connector: RJ-45, Auto MDI/MDI-X</p>
<p>• Serial Data</p> <p>Number of Channels: 1~4 Channels Connector: Terminal Block Data Type: Rs485 or Rs232 or RS422 Data Rate: DC to 1Mbps</p>	<p>• Optical</p> <p>Wavelengths: 1310nm~1610nm Fiber Type: Single-mode up to 60km Connector: ST, LC or FC</p>
<p>• Tally/GPIO</p> <p>Number of Channels: 1~4 Channels Connector: Terminal Block Data Formats: Dry Contact Closure Status: Normally Open (Default) Response Time: 2 ms Relay/Contact Rating: 0.5 A @ 120VAC 0.25 A @ 240VAC 1A@30VDC 5A@6VDC Max output power: 30W</p>	<p>• Mechanical</p> <p>Size: V-mount, Stand-alone 19inch 1U, 2U or 4U</p>

Ordering Information

Part Number	Description
3G-SDI Fiber Optic Extender series (common models)	
VOS-3G-T/R-Mini	Mini Type, 1-Channel 3G-SDI Fiber Optic Extender
VOS-1H3G-T/R	1-Channel 3G-SDI to Fiber Converter with SFP optical module
VOS-2H3G-T/R	2-Channel 3G-SDI over Fiber
VOS-4H3G-T/R	4-Channel 3G-SDI over Fiber
VOS-8H3G-T/R	8-Channel 3G-SDI over Fiber
VOS-16H3G-T/R	16-Channel 3G-SDI over Fiber
VOS-1H3G-DET/R	1-Channel 3G-SDI + 1 Duplex Data + IP Ethernet
VOS-2H3G-DET/R	2-Channel 3G-SDI + 1 Duplex Data + IP Ethernet
VOS-1H3G-ADCET/R	1-Ch 3G-SDI + 2 Duplex Audio + 1 Duplex Data + Contact Closure + 100M Ethernet
VOS-1H3GR1-ADCET/R	1-Ch 3G-SDI + 1 Return 3G-SDI + 2 Duplex Unbalanced Audio + 1 Duplex Data + 1 Duplex Contact Closure + Gigabit Ethernet
VOS-2H3GR1-ADCET/R	2-Ch 3G-SDI + 1 Return 3G-SDI + 2 Duplex Unbalanced Audio + 1 Duplex Data + 1 Duplex Contact Closure + Gigabit Ethernet
VOS-1H3G-BLADCET/R	1-Channel 3G-SDI + 2 Duplex Balanced Audio (XLR) + 1 Duplex Data + 1 Duplex Contact Closure + Gigabit Ethernet
VOS-2H3GR1-BLADCET/R	2-Ch 3G-SDI + 1 Return 3G-SDI + 2 Duplex Balanced Audio (XLR) + 1 Duplex Data + 1 Duplex Contact Closure + Gigabit Ethernet
VOS-4H3G-BLA2ET/R	4-Channel 3G-SDI + 2 Duplex Balanced Audio (XLR) + 2 x Gigabit Ethernet
VOS-8H3G-BLA2ET/R	8-Channel 3G-SDI + 2 Duplex Balanced Audio (XLR) + 2 x Gigabit Ethernet

Details link: <https://www.voscom.com/sdi-fiber-optic-extender/>

3G-SDI Fiber Optic Extender, Mini Type 1-Channel 3G-SDI/HD-SDI Video over Fiber

1 →
3G-SDI

Audio

Data

Ethernet



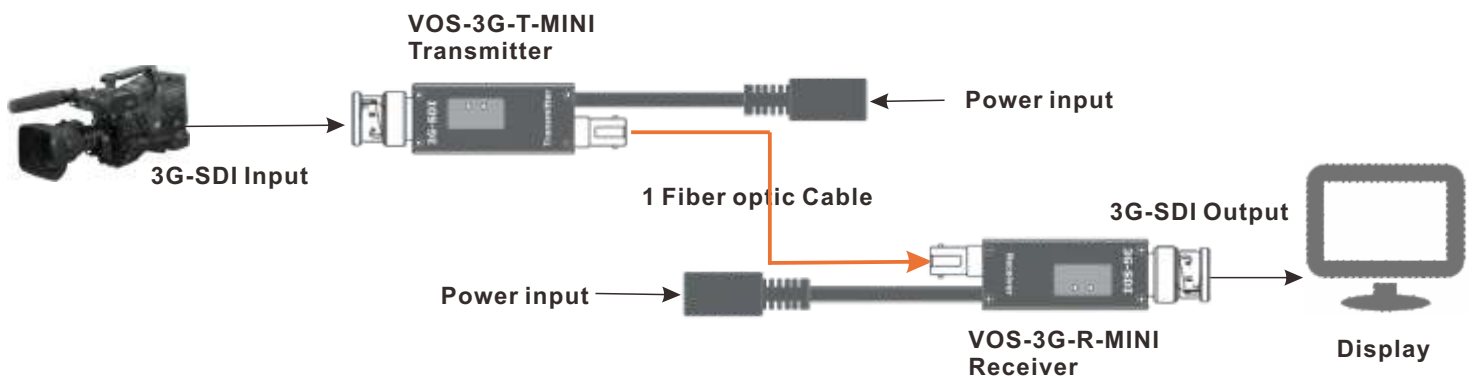
VOSCOM Mini 3G-SDI Fiber Converter support 1-Channel uncompressed 3G-SDI over one core fiber, also support HD-SDI and SD-SDI. Integrated design combining video processing and optic-electric conversion, with high level of integration and small size, offer unmatched flexibility and cost efficiency. 3G-SDI over one single-mode fiber, the distance up to 10km.

VOSCOM 3G-SDI Fiber converters use a compact, low-profile enclosure that works well in tight spaces around and behind equipment racks, trucks and on camera. and the converters meet all relevant SMPTE specifications, and offering electrical isolation to eliminate potential ground loop problems for a rugged, versatile solution that is suitable for a variety of applications.

Features

- 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)
- Support Single-mode fiber up to 10km
- LED Status Provide Rapid Indication of Operating Parameters
- No EMI or RFI and no ground loops
- Plug and Play

Typical Configuration



3G-SDI Fiber Optic Extenders

Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power Budget	Maximum Transmission Distance
Transmitter	Receiver				
VOS-3G-T-MINI	VOS-3G-R-MINI	Single-Mode	1470nm	12dB	10km

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.
- 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: 1-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 Optical connector
 Fiber Type: Single-Mode, Single-Fiber
 Rate: 3Gbps
 Tx Output Power: 0~-3dB
 Receiver Sensitivity: -12dB

• Electrical & Mechanical

Input Power Requirements: DC 5V
 Power Adapter: AC100V~240V
 Power Consumption: <1.5W
 Stand-Alone Dimensions: 72mm x 18mm x 18mm
 Shipping Weight: 0.5kg (include TX & RX)

• Connectors

Video Connector: 75 Ohm BNC (Gold Center Pin)
 IEC169-8 standard
 Optical Connector: ST Optical connector
 Power Connector: DC 3.5 x 1.35mm

• Environmental

Operating Temperature: -20°C ~+70°C
 Storage Temperature: -40°C~+85°C
 Relative Humidity: 0%~95% (non-condensing)
 MTBF: >100,000 hours

3G-SDI Fiber Optic Extender 1-Channel 3G-SDI Video over Fiber

1 → 3G-SDI

System Design

VOS-1H3G-T/R provides for the digital transmission of 1-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.

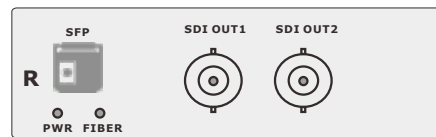
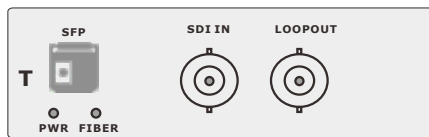


Audio

Stand-alone or rack-mount. All 3G-SDI video over Fiber of VOS-1H3G-T/R comes in an insert card version. The cards can be inserted into our 16-slot, 19inch 2U or 4U rack (VOS-CH02, VOS-CH04).

Data

Panel

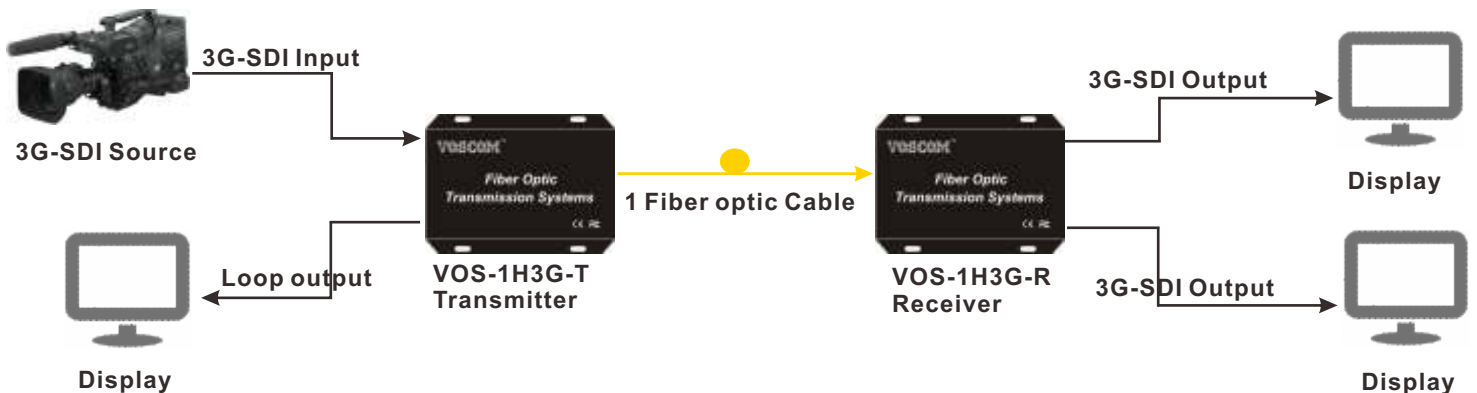


Ethernet

Features

- 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
- Plug and Play

Typical Configuration



3G-SDI Fiber Optic Extenders

Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power Budget	Maximum Transmission Distance
Transmitter	Receiver				
VOS-1H3G-T	VOS-1H3G-R	Single-Mode	1310nm	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.
- 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: 1-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: LC (SFP)
 Wavelengths: 1310nm
 Fiber Type: Single-Mode, Single-Fiber
 Rate: 3Gbps
 Tx Output Power: >-6dB
 Receiver Sensitivity: >-14dB

• Electrical & Mechanical

Input Power Requirements: DC 5V@1A
 Power Adapter: AC100V~240V
 Power Consumption: <2W
 Stand-Alone Dimensions: 104mm x 103mm x 28mm
 Shipping Weight: 1.0kg (include TX & RX)

• Connectors

Video Connector: 75 Ohm BNC (Gold Center Pin)
 IEC169-8 standard
 Optical Connector: LC (SFP)
 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

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

2 →
3G-SDI

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.

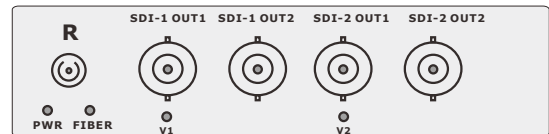
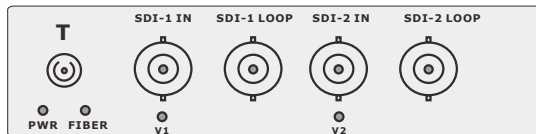


Audio

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).

Data

Panel

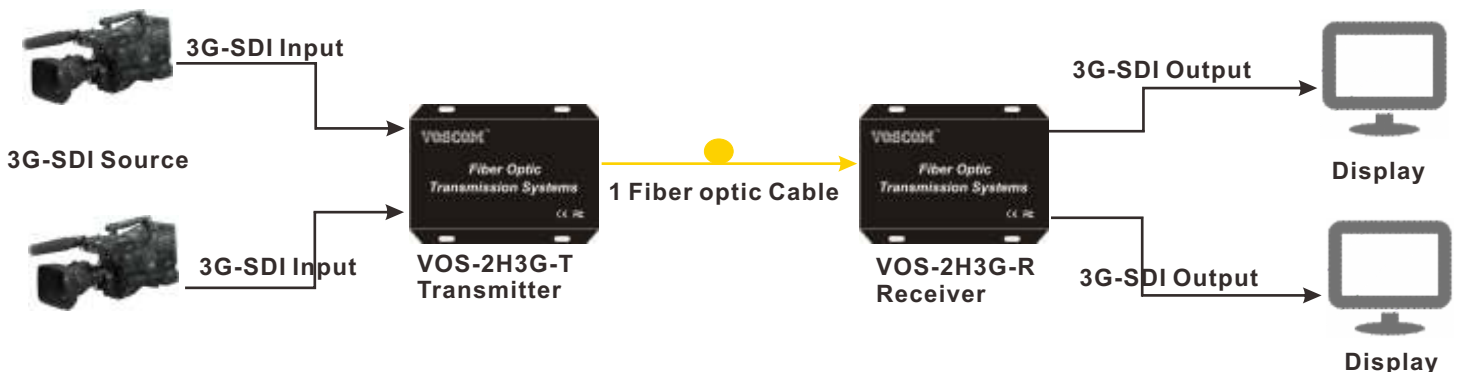


Ethernet

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

Note:

- The Optical Power Budget data fit Mult-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.
- 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

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

4 →
3G-SDI

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

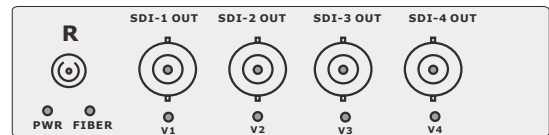
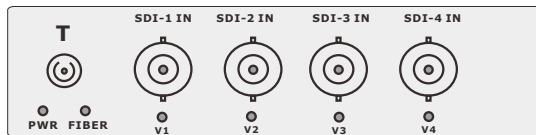
Stand-alone or rack-mount. All 3G-SDI video over Fiber of VOS-4H3G-T/R comes in an insert card version. The cards can be inserted into our 16-slot, 19inch 4U rack (VOS-CH04).



Audio

Data

Panel

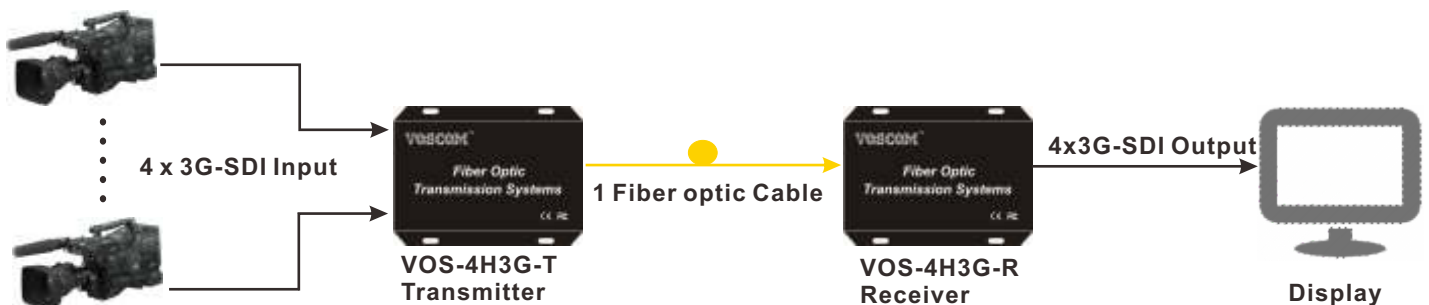


Ethernet

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 μm),Single-Mode(9/125 μm).
- When using 50/125 μm 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

3G-SDI Fiber Optic Extender 8-Channel 3G-SDI /HD-SDI over Fiber

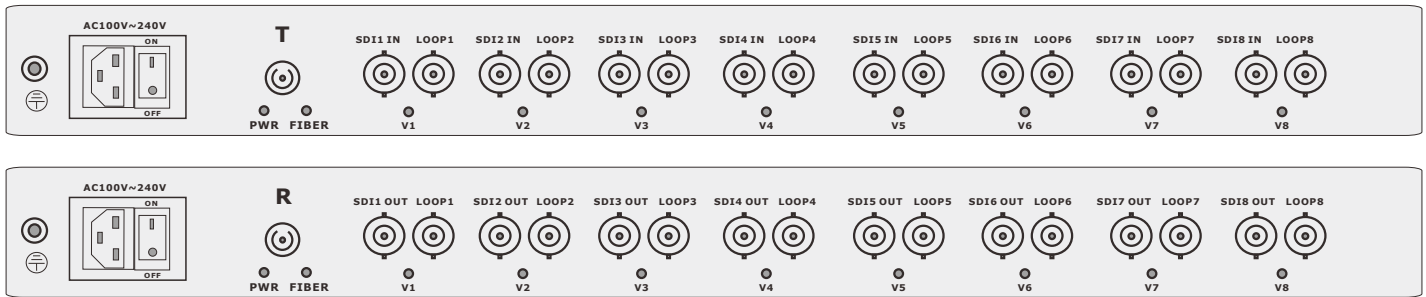


System Design

VOS-8H3G-T/R provides 8-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.



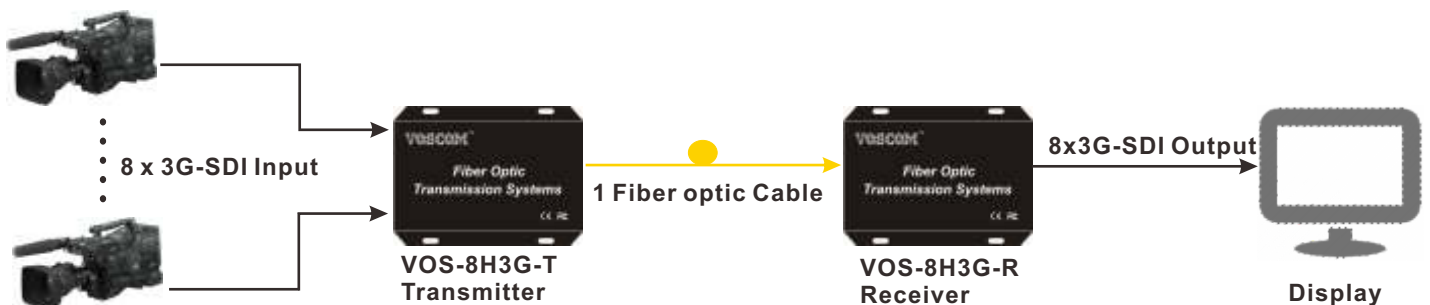
Panel



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
- 19inch 1U 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-8H3G-T	VOS-8H3G-R	Single-Mode	1310~1610nm	12dB	20km

Note:

- The Optical Power Budget data fit Mult-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.
- 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: 8-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: 1310nm~1610nm
 Fiber Type: Single-Mode, Single-Fiber
 Rate: 3Gbps
 Tx Output Power: >-6dB
 Receiver Sensitivity: >-14dB

• Electrical & Mechanical

Power Adapter: AC100V~240V (Built-in)
 Power Consumption: <20W
 19inch 1U Rack: 445mm x 220mm x 44.5mm
 Shipping Weight: 6.0kg (include TX & RX)

• Connectors

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

• Environmental

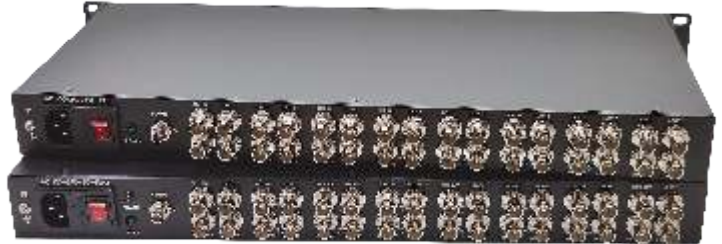
Operating Temperature: -20°C ~+75°C
 Storage Temperature: -40°C~+85°C
 Relative Humidity: 0%~95% (non-condensing)
 MTBF: >100,000 hours

3G-SDI Fiber Optic Extender 16-Channel 3G-SDI /HD-SDI over Fiber

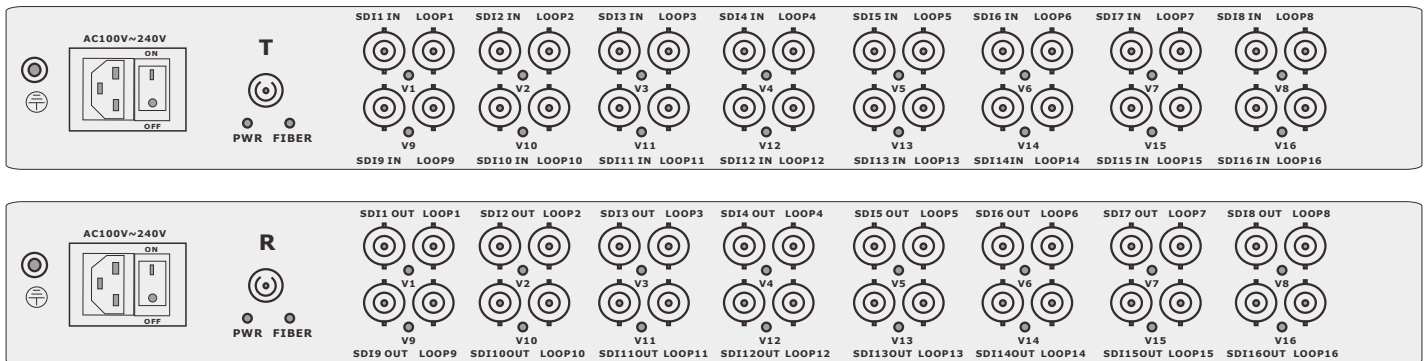
16 →
3G-SDI

System Design

VOS-16H3G-T/R provides 16-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.



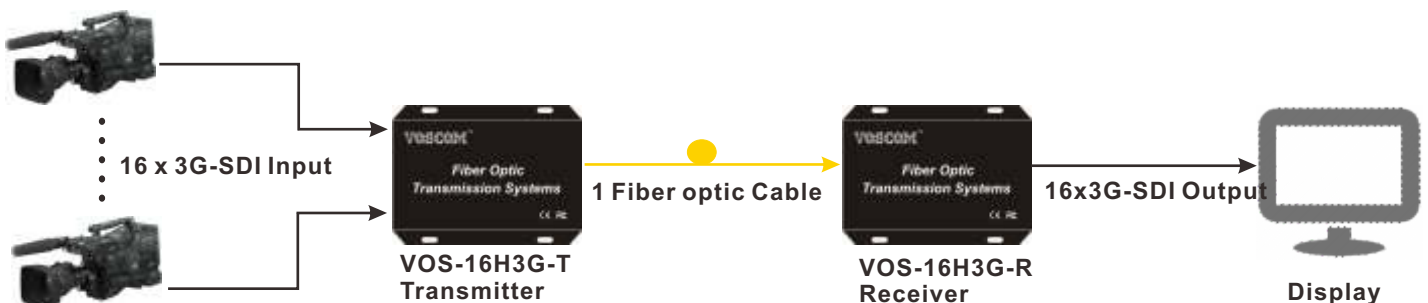
Panel



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
- 19inch 1U 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-16H3G-T	VOS-16H3G-R	Single-Mode	1310~1610nm	12dB	20km

Note:

- The Optical Power Budget data fit Mult-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.
- 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: 16-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: 1310nm~1610nm
 Fiber Type: Single-Mode, Single-Fiber
 Rate: 3Gbps
 Tx Output Power: >-6dB
 Receiver Sensitivity: >-14dB

• Electrical & Mechanical

Power Adapter: AC100V~240V (Built-in)
 Power Consumption: <30W
 19inch 1U Rack: 445mm x 220mm x 44.5mm
 Shipping Weight: 8.0kg (include TX & RX)

• Connectors

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

• Environmental

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

3G-SDI Fiber Optic Extender 1-Channel 3G-SDI + 1 Duplex Data + Ethernet

1 →
3G-SDI

System Design

VOS-1H3G-DET/R provides 1-Channel uncompressed 3G-SDI, data (Rs485, Rs232 or Rs422) and Ethernet.

Audio

Stand-alone or rack-mount. All 3G-SDI video over Fiber of VOS-1H3G-DET/R comes in an insert card version. The cards can be inserted into our 16-slot, 19inch 4U rack (VOS-CH04).



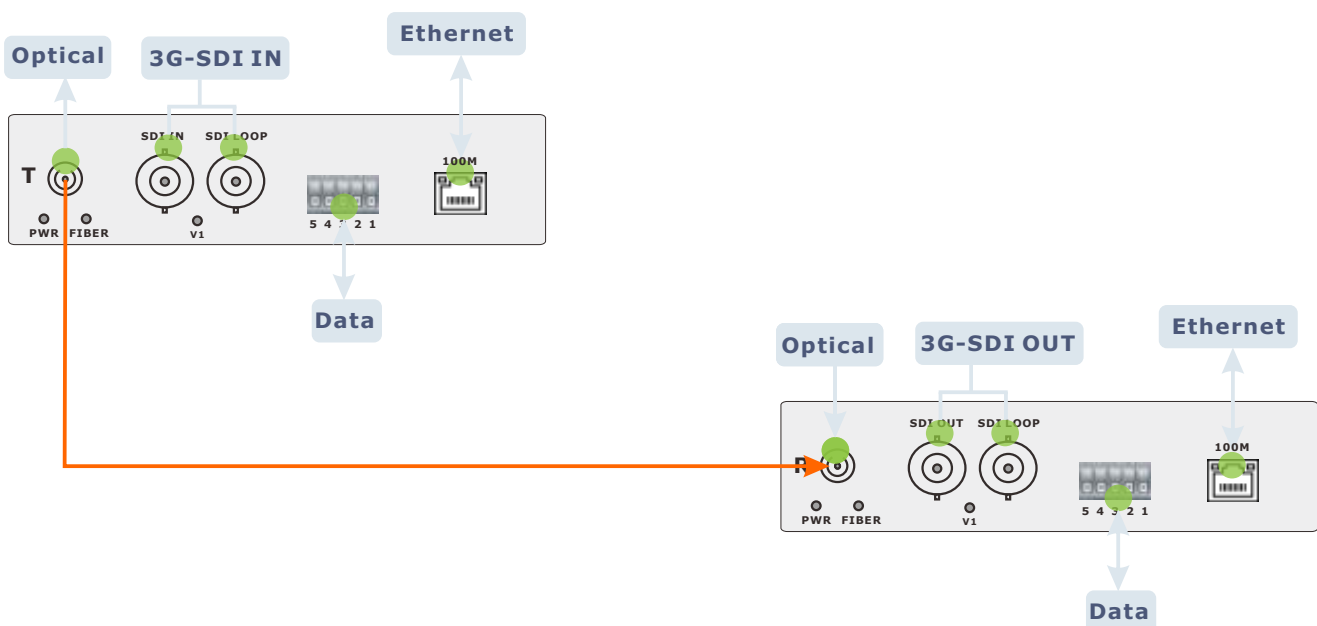
Features

- 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)
- LED Status Provide Rapid Indication of Operating Parameters
- No EMI or RFI and no ground loops
- Stand alone or rack-mount
- Plug and Play

← **1** →
Data

← **1** →
Ethernet

Panel & Configuration



3G-SDI Fiber Optic Extender

Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power Budget	Maximum Transmission Distance
Transmitter	Receiver				
VOS-1H3G-DET	VOS-1H3G-DER	Single-Mode	1310/1550/1470nm	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.
- 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: 1-Channel 3G-SDI
 Connector: 75 Ohm BNC (Gold Center Pin)
 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

• Data *

Number of Channels: 1-Channel Duplex Data
 Connector: Terminal Block
 Data Type: Rs485 or Rs232 or RS422
 Data Rate: DC to 1Mbps

* **Note:** the device can support 1-Channel Rs422 or Rs232 & Rs485 data, but this must be configured by the factory, so please choose the configuration prior to placing the order.

• Optical

Optical Connector: ST, FC or LC optional
 Wavelengths: 1310/1470/1550nm
 Fiber Type: Single-Mode 20km
 Rate: 3Gbps
 Tx Output Power: >-6dB
 Receiver Sensitivity: >-14dB

• Ethernet

Number of Channels: 1-Channel
 Data Rate: 10/100 Mbps
 Connector: RJ-45, Auto MDI/MDI-X

• Electrical & Mechanical

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

• Environmental

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



1 →

3G-SDI

3G-SDI Fiber Optic Extender

1-Ch 3G-SDI with Audio, Data, Tally & Ethernet

System Design

VOS-1H3G-ADCET/R provides 1-Channel 3G-SDI /HD-SDI, 2 duplex audio, 1 duplex data (Rs485, Rs232 or Rs422), contact closure for tally and Ethernet.

Stand-alone or rack-mount. All 3G-SDI video over Fiber of VOS-1H3G-ADCET/R comes in an insert card version. The cards can be inserted into our 16-slot, 19inch 4U rack (VOS-CH04).

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)
- LED Status Provide Rapid Indication of Operating Parameters
- No EMI or RFI and no ground loops
- Stand alone or rack-mount
- Plug and Play

← **2** →

Audio

← **1** →

Data

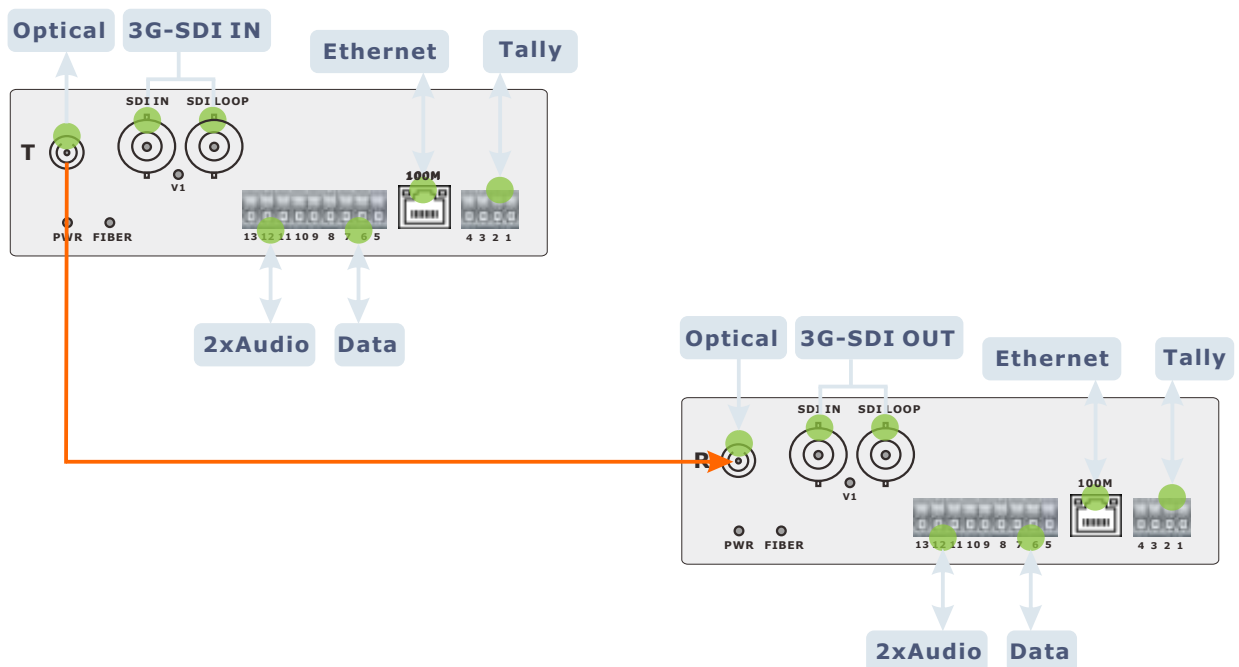
← **1** →

Contact Closure

← **1** →

Ethernet

Panel & Configuration



3G-SDI Fiber Optic Extender

Ordering Information

Part Number	Description
VOS-1H3G-ADCET/R	1-Channel 3G-SDI + 2 Duplex Audio + 1 Duplex Data + 1 Duplex Contact Closure + 100M Ethernet, Single-mode 20km, Single-Fiber

Specification

<p>• Video</p> <p>Number of Channels: 1-Channel 3G-SDI Connector: 75 Ohm BNC (Gold Center Pin) 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</p>	<p>• Audio</p> <p>Number of Channels: 2-Channel Duplex Audio Connector: Terminal Block Audio input/output Level: +4dBu nominal Audio Type: Unbalanced, Line Level Audio in/output impedance: 600Ω Frequency Response : 20Hz ~ 20KHz Sample Rate : 48KHz, 24K bit rate Signal-to-Noise Ratio(SNR): > 82 dB Distortion: <0.05%</p>
<p>• Data *</p> <p>Number of Channels: 1-Channel Duplex Data Connector: Terminal Block Data Type: Rs485 or Rs232 or RS422 Data Rate: DC to 1Mbps</p> <p>* Note: the device can support Rs422, Rs232 or Rs485 data type, but this must be configured by the factory, so please choose the configuration prior to placing the order.</p>	<p>• Ethernet</p> <p>Number of Channels: 1-Channel Data Rate: 10/100 Mbps Connector: RJ-45, Auto MDI/MDI-X</p>
<p>• Tally *</p> <p>Number of Channels: 1-Ch Duplex or 2-Ch Simplex Connector: Terminal Block Data Formats: Dry Contact Closure Status: Normally Open (Default) Response Time: 2 ms Relay/Contact Rating: 0.5 A @ 120VAC 0.25 A @ 240VAC 1A@30VDC 5A@6VDC Max output power: 30W</p> <p>* Note: the device can support 1 duplex or 2 Simplex contact closure, but this must be configured by the factory, so please choose the configuration prior to placing the order.</p>	<p>• Optical</p> <p>Optical Connector: ST, FC or LC optional Wavelengths: 1310/1470/1550nm Fiber Type: Single-Mode 20km Rate: 3Gbps Tx Output Power: > -6dB Receiver Sensitivity: > -14dB</p>
	<p>• Electrical & Mechanical</p> <p>Input Power Requirements: DC 5V@2A Power Adapter: AC100V~240V Power Consumption: <5W Stand-Alone Dimensions: 192mm x 167mm x 45mm Shipping Weight: 2.0kg (include TX & RX)</p>
	<p>• Electrical & Mechanical</p> <p>Operating Temperature: -20°C ~+75°C Storage Temperature: -40°C~+85°C Relative Humidity: 0%~95% (non-condensing) MTBF: >100,000 hours</p>

1-Channel 3G-SDI + 2 Duplex Balanced Audio + Data, Contact Closure & Gigabit Ethernet

1 →
3G-SDI

↔ **2** ↔
Audio

↔ **1** ↔
Data

↔ **1** ↔
Contact Closure

↔ **1** ↔
Ethernet



System Design

VOS-1H3G-BLADCET/R provides 1-Channel 3G-SDI and 2 duplex balanced audio, also with serial data, contact closure for tally, and Gigabit 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)
- LED Status Provide Rapid Indication of Operating Parameters
- No EMI or RFI and no ground loops
- 19inch 1U Rack

Panel & Configuration



3G-SDI Fiber Optic Extender

Ordering Information

Part Number	Description
VOS-1H3G-BLADCET/R	1-Channel 3G-SDI + 2 Duplex Balanced Audio + 1 Duplex Data + 1 Duplex Contact Closure + 1000M Ethernet
VOS-1H3GR1-BLADCET/R	1-Channel 3G-SDI + 1 Return 3G-SDI + 2 Duplex Balanced Audio + 1 Duplex Data + 1 Duplex Contact Closure + 1000M Ethernet
VOS-2H3G-BLADCET/R	2-Channel 3G-SDI + 2 Duplex Balanced Audio + 2 Duplex Data + 1 Duplex Contact Closure + 1000M Ethernet
VOS-2H3GR1-BLADCET/R	2-Channel 3G-SDI + 1 Return 3G-SDI + 2 Duplex Balanced Audio + 1 Duplex Data + 1 Duplex Contact Closure + 1000M Ethernet

Specification

<p>• Video</p> <p>Number of Channels: 1~2-Channel 3G-SDI Connector: 75 Ohm BNC (Gold Center Pin) 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</p>	<p>• Audio</p> <p>Number of Channels: 2-Channel Duplex Audio Connector: XLR Male/Female Audio input/output Level: +4dBu nominal Audio Type: Balanced, Line Level or Mic Audio in/output impedance: 600Ω Frequency Response : 20Hz ~ 20KHz Signal-to-Noise Ratio(SNR): > 90 dB Distortion: <0.05%</p>
<p>• Data *</p> <p>Number of Channels: 1-Channel Duplex Data Connector: Terminal Block Data Type: Rs485 or Rs232 or RS422 Data Rate: DC to 1Mbps</p> <p>* Note: the device can support Rs422, Rs232 or Rs485 data type, but this must be configured by the factory, so please choose the configuration prior to placing the order.</p>	<p>• Ethernet</p> <p>Number of Channels: 1-Channel Data Rate: 1000 Mbps Connector: RJ-45, Auto MDI/MDI-X</p>
<p>• Tally *</p> <p>Number of Channels: 1-Ch Duplex or 2-Ch Simplex Connector: Terminal Block Data Formats: Dry Contact Closure Status: Normally Open (Default) Response Time: 2 ms Relay/Contact Rating: 0.5 A @ 120VAC 0.25 A @ 240VAC 1A@30VDC, 5A@6VDC Max output power: 30W</p> <p>* Note: the device can support 1 duplex or 2 Simplex contact closure, but this must be configured by the factory, so please choose the configuration prior to placing the order.</p>	<p>• Optical</p> <p>Connector: ST, FC or LC optional Fiber Type: Single-Mode 20km Wavelengths: 1310-1610nm Tx Output Power: >-6dB Receiver Sensitivity: >-14dB</p>
	<p>• Electrical & Mechanical</p> <p>Power Adapter: AC100V~240V (Built-in) Power Consumption: <30W 19inch 1U Rack: 445mm x 220mm x 44.5mm Shipping Weight: 6.0kg (include TX & RX)</p>
	<p>• Electrical & Mechanical</p> <p>Operating Temperature: -20°C ~+75°C Storage Temperature: -40°C~+85°C Relative Humidity: 0%~95% (non-condensing) MTBF: >100,000 hours</p>

2-Channel 3G-SDI + 1 Return 3G-SDI (for Genlock) + 2 Duplex Audio + Data + Tally + Gigabit Ethernet

2 →
← **1**
3G-SDI

← **2** →
Audio

← **2** →
Data

← **1** →
Contact Closure

← **1** →
Ethernet



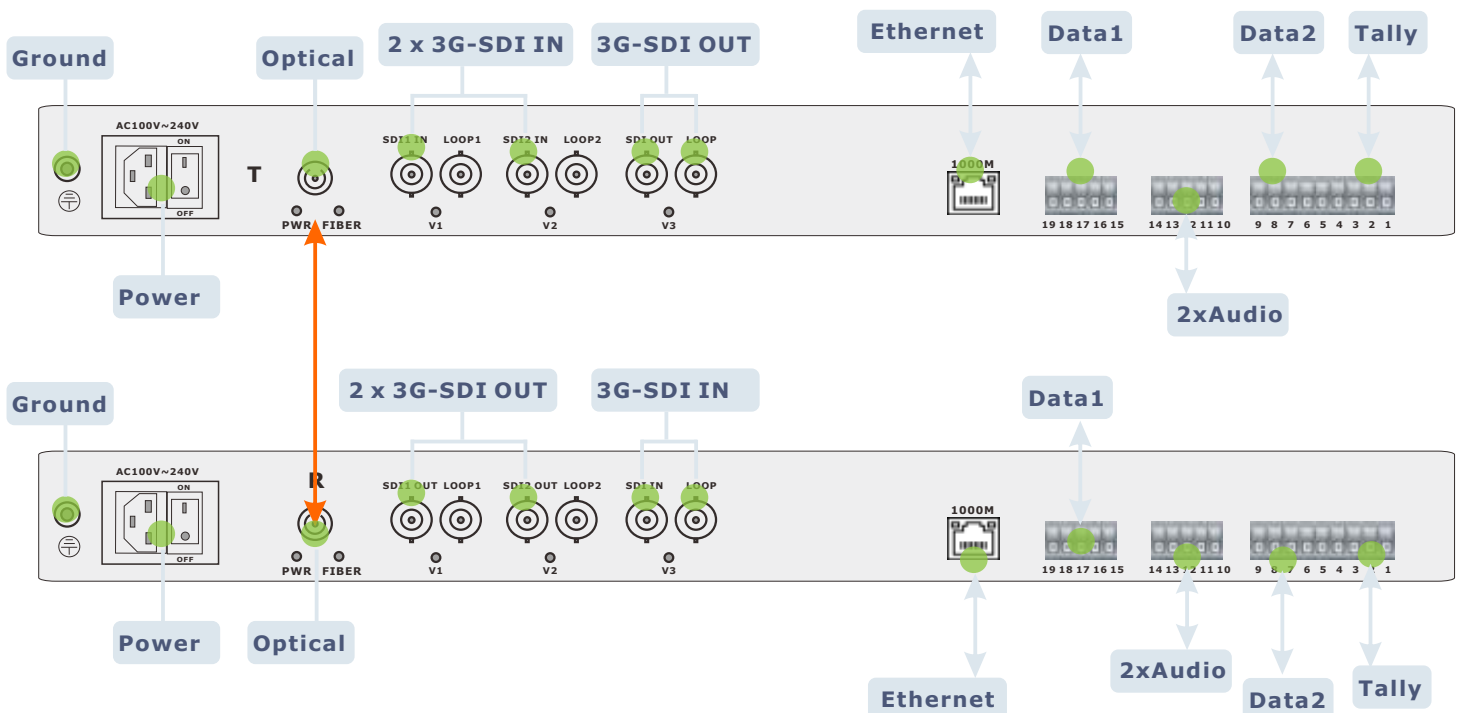
System Design

VOS-2H3GR1-ADCET/R provides 2-Channel 3G-SDI and 1-Channel Return 3G-SDI, also with 2 duplex analog audio, serial data, contact closure for tally, and Gigabit 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)
- LED Status Provide Rapid Indication of Operating Parameters
- No EMI or RFI and no ground loops
- 19inch 1U Rack

Panel & Configuration



3G-SDI Fiber Optic Extender

Ordering Information

Part Number	Description
VOS-2H3GR1-ADCET/R	2-Ch 3G-SDI + 1 Return 3G-SDI + 2 Duplex Audio + 2 Duplex Data + 1 Duplex Contact Closure + 1000M Ethernet
VOS-1H3GR1-ADCET/R	1-Ch 3G-SDI + 1 Return 3G-SDI + 2 Duplex Audio + 2 Duplex Data + 1 Duplex Contact Closure + 1000M Ethernet
VOS-2H3G-ADCET/R	2-Channel 3G-SDI + 2 Duplex Audio + 2 Duplex Data + 1 Duplex Contact Closure + 1000M Ethernet
VOS-4H3G-ADCET/R	4-Channel 3G-SDI + 2 Duplex Audio + 2 Duplex Data + 1 Duplex Contact Closure + 1000M Ethernet

Specification

<p>• Video</p> <p>Number of Channels: 2~4-Channel 3G-SDI Connector: 75 Ohm BNC (Gold Center Pin) 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</p>	<p>• Audio</p> <p>Number of Channels: 2-Channel Duplex Audio Connector: Terminal Block Audio input/output Level: +4dBu nominal Audio Type: Unbalanced, Line Level Audio in/output impedance: 600Ω Frequency Response : 20Hz ~ 20KHz Signal-to-Noise Ratio(SNR): > 82 dB Distortion: <0.05%</p>
<p>• Data *</p> <p>Number of Channels: 2-Channel Duplex Data Connector: Terminal Block Data Type: Rs485 or Rs232 or RS422 Data Rate: DC to 1Mbps</p> <p>* Note: the device can support Rs422, Rs232 or Rs485 data type, but this must be configured by the factory, so please choose the configuration prior to placing the order.</p>	<p>• Ethernet</p> <p>Number of Channels: 1-Channel Data Rate: 1000 Mbps Connector: RJ-45, Auto MDI/MDI-X</p>
<p>• Tally *</p> <p>Number of Channels: 1-Ch Duplex or 2-Ch Simplex Connector: Terminal Block Data Formats: Dry Contact Closure Status: Normally Open (Default) Response Time: 2 ms Relay/Contact Rating: 0.5 A @ 120VAC 0.25 A @ 240VAC 1A@30VDC, 5A@6VDC Max output power: 30W</p> <p>* Note: the device can support 1 duplex or 2 Simplex contact closure, but this must be configured by the factory, so please choose the configuration prior to placing the order.</p>	<p>• Optical</p> <p>Connector: ST, FC or LC optional Fiber Type: Single-Mode 20km Wavelengths: 1310-1610nm Tx Output Power: >-6dB Receiver Sensitivity: >-14dB</p>
	<p>• Electrical & Mechanical</p> <p>Power Adapter: AC100V~240V (Built-in) Power Consumption: <30W 19inch 1U Rack: 445mm x 220mm x 44.5mm Shipping Weight: 6.0kg (include TX & RX)</p>
	<p>• Electrical & Mechanical</p> <p>Operating Temperature: -20°C ~+75°C Storage Temperature: -40°C~+85°C Relative Humidity: 0%~95% (non-condensing) MTBF: >100,000 hours</p>

4-Channel 3G-SDI (or 2 Duplex) + 2 Duplex Balanced Audio + 2 x Gigabit Ethernet

4

3G-SDI

2

Audio

Data

System Design

VOS-4H3G-BLA2ET/R provides 4-Channel 3G-SDI (or 2 Duplex 3G-SDI) and 2 duplex balanced audio, and 2-Channel Gigabit Ethernet.

Contact Closure

2

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)
- LED Status Provide Rapid Indication of Operating Parameters
- No EMI or RFI and no ground loops
- 19inch 1U Rack

Panel & Configuration



3G-SDI Fiber Optic Extender

Ordering Information

Part Number	Description
VOS-4H3G-BLA2ET/R	4-Channel 3G-SDI + 2 Duplex Balanced Audio + 2 x 1000M Ethernet
VOS-2H3GR2-BLA2ET/R	2-Channel 3G-SDI + 2 Return 3G-SDI (2 Duplex 3G-SDI) + 2 Duplex Balanced Audio + 2 x 1000M Ethernet

Specification

<p>• Video</p> <p>Number of Channels: 4-Channel 3G-SDI (or 2 Duplex 3G-SDI)</p> <p>Connector: 75 Ohm BNC (Gold Center Pin)</p> <p>Data Rate: 270 Mbps, 1.483 Gbps, 1.485 Gbps, 2.967 Gbps, 2.970 Gbps, - Auto Select</p> <p>Standards: SMPTE 424M (3G-SDI), SMPTE 292M (HD-SDI), SMPTE 259M (SD-SDI)</p> <p>Max Resolution: 1080p @ 60Hz</p>	<p>• Audio</p> <p>Number of Channels: 2-Channel Duplex Audio</p> <p>Connector: XLR Male/Female</p> <p>Audio input/output Level: +4dBu nominal</p> <p>Audio Type: Balanced, Line Level or Mic</p> <p>Audio in/output impedance: 600Ω</p> <p>Frequency Response : 20Hz ~ 20KHz</p> <p>Signal-to-Noise Ratio(SNR): > 90 dB</p> <p>Distortion: <0.05%</p>
<p>• Data *</p>	<p>• Ethernet</p> <p>Number of Channels: 2-Channel</p> <p>Data Rate: 1000 Mbps</p> <p>Connector: RJ-45, Auto MDI/MDI-X</p>
<p>• Tally *</p>	<p>• Optical</p> <p>Connector: ST, FC or LC optional</p> <p>Fiber Type: Single-Mode 20km</p> <p>Wavelengths: 1310-1610nm</p> <p>Tx Output Power: >-6dB</p> <p>Receiver Sensitivity: >-14dB</p>
	<p>• Electrical & Mechanical</p> <p>Power Adapter: AC100V~240V (Built-in)</p> <p>Power Consumption: <30W</p> <p>19inch 1U Rack: 445mm x 220mm x 44.5mm</p> <p>Shipping Weight: 6.0kg (include TX & RX)</p>
	<p>• Electrical & Mechanical</p> <p>Operating Temperature: -20°C ~+75°C</p> <p>Storage Temperature: -40°C~+85°C</p> <p>Relative Humidity: 0%~95% (non-condensing)</p> <p>MTBF: >100,000 hours</p>

8-Channel 3G-SDI (or 4 Duplex) + 2 Duplex Balanced Audio + 2 x Gigabit Ethernet

8

3G-SDI

2

Audio



Data

System Design

VOS-8H3G-BLA2ET/R provides 8-Channel 3G-SDI (or 4 Duplex 3G-SDI) and 2 duplex balanced audio, and 2-Channel Gigabit Ethernet.

Contact Closure

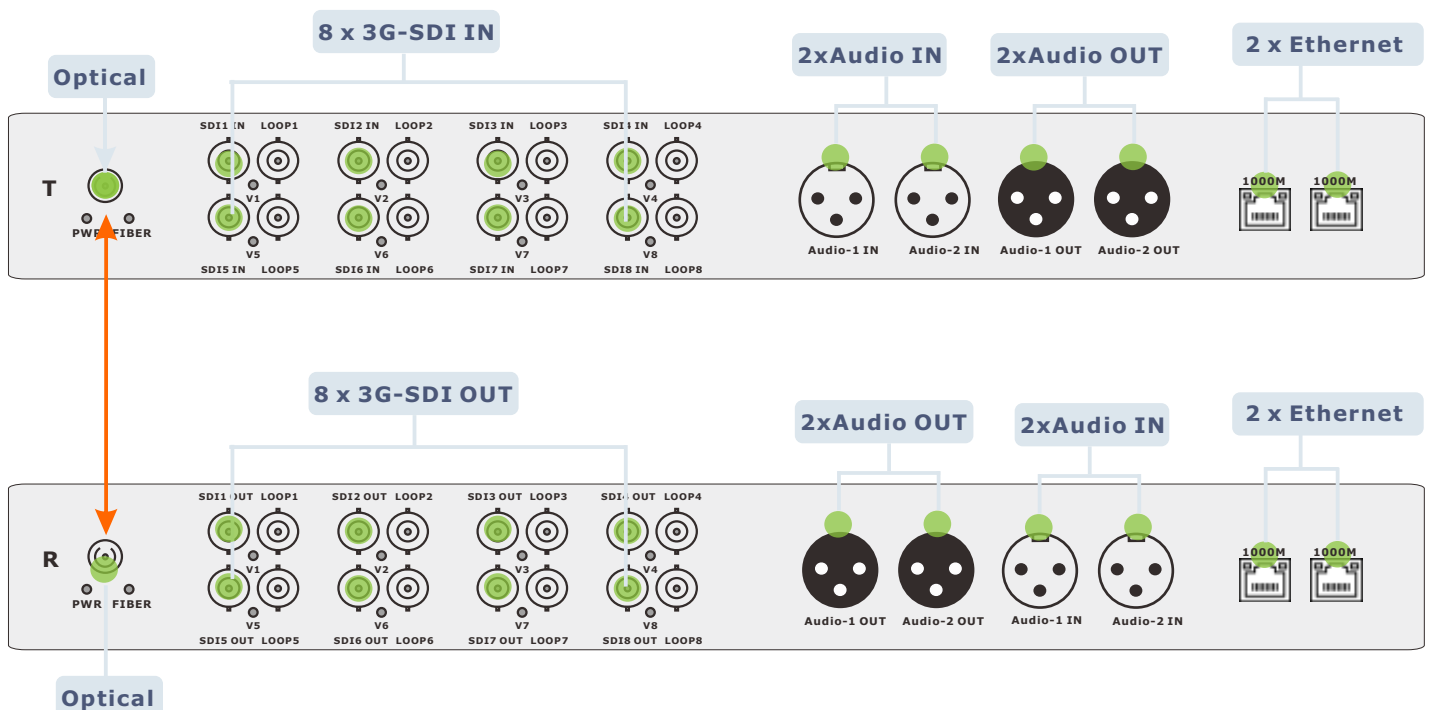
2

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)
- LED Status Provide Rapid Indication of Operating Parameters
- No EMI or RFI and no ground loops
- 19inch 1U Rack

Panel & Configuration



3G-SDI Fiber Optic Extender

Ordering Information

Part Number	Description
VOS-8H3G-BLA2ET/R	8-Channel 3G-SDI + 2 Duplex Balanced Audio + 2 x 1000M Ethernet
VOS-4H3GR4-BLA2ET/R	4-Channel 3G-SDI + 4 Return 3G-SDI (4 Duplex 3G-SDI) + 2 Duplex Balanced Audio + 2 x 1000M Ethernet

Specification

<p>• Video</p> <p>Number of Channels: 8-Channel 3G-SDI (or 4 Duplex 3G-SDI)</p> <p>Connector: 75 Ohm BNC (Gold Center Pin)</p> <p>Data Rate: 270 Mbps, 1.483 Gbps, 1.485 Gbps, 2.967 Gbps, 2.970 Gbps, - Auto Select</p> <p>Standards: SMPTE 424M (3G-SDI), SMPTE 292M (HD-SDI), SMPTE 259M (SD-SDI)</p> <p>Max Resolution: 1080p @ 60Hz</p>	<p>• Audio</p> <p>Number of Channels: 2-Channel Duplex Audio</p> <p>Connector: XLR Male/Female</p> <p>Audio input/output Level: +4dBu nominal</p> <p>Audio Type: Balanced, Line Level or Mic</p> <p>Audio in/output impedance: 600Ω</p> <p>Frequency Response : 20Hz ~ 20KHz</p> <p>Signal-to-Noise Ratio(SNR): > 90 dB</p> <p>Distortion: <0.05%</p>
<p>• Data *</p>	<p>• Ethernet</p> <p>Number of Channels: 2-Channel</p> <p>Data Rate: 1000 Mbps</p> <p>Connector: RJ-45, Auto MDI/MDI-X</p>
<p>• Tally *</p>	<p>• Optical</p> <p>Connector: ST, FC or LC optional</p> <p>Fiber Type: Single-Mode 20km</p> <p>Wavelengths: 1310-1610nm</p> <p>Tx Output Power: >-6dB</p> <p>Receiver Sensitivity: >-14dB</p>
	<p>• Electrical & Mechanical</p> <p>Power Adapter: AC100V~240V (Built-in)</p> <p>Power Consumption: <30W</p> <p>19inch 1U Rack: 445mm x 220mm x 44.5mm</p> <p>Shipping Weight: 6.0kg (include TX & RX)</p>
	<p>• Electrical & Mechanical</p> <p>Operating Temperature: -20°C ~+75°C</p> <p>Storage Temperature: -40°C~+85°C</p> <p>Relative Humidity: 0%~95% (non-condensing)</p> <p>MTBF: >100,000 hours</p>