VOSCOM

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

1
3G-SDI

Audio

1
Data

1
Ethernet

System Design

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

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).
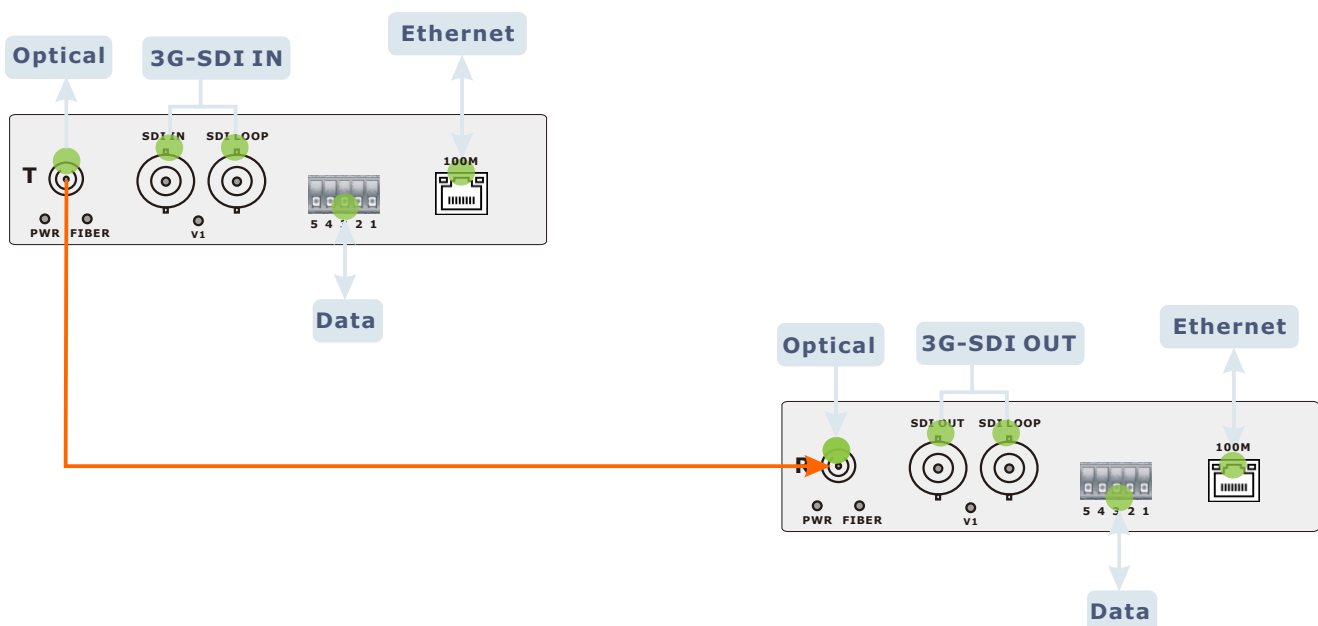
Features

• 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

Panel & Configuration

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 Mulit-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