

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

1 →
3G-SDI

Audio

Data

Ethernet



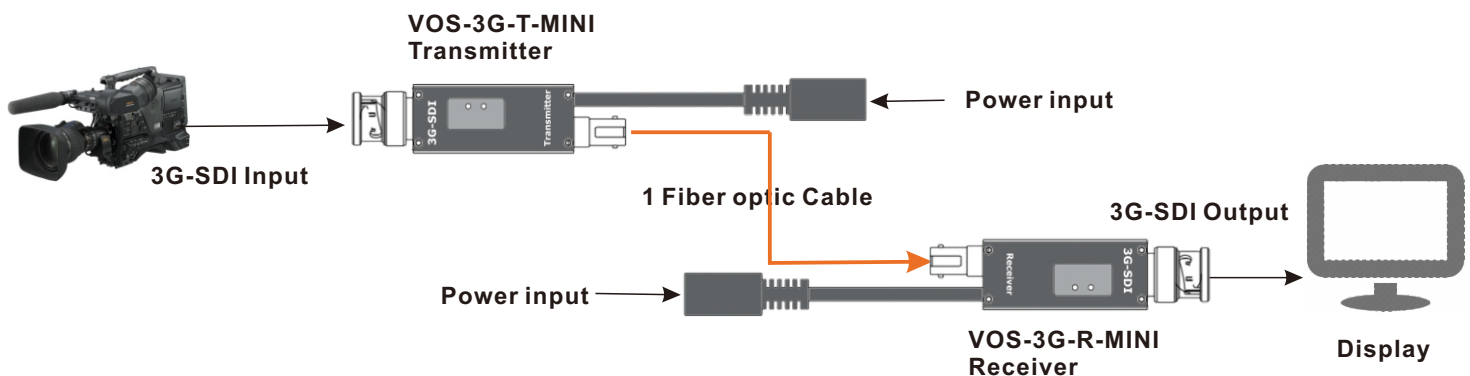
VOSCOM Mini 3G-SDI Fiber Converter support 1-Channel uncompressed 3G-SDI over one core fiber, also support HD-SDI and SD-SDI. Integrated design combining video processing and optic-electric conversion, with high level of integration and small size, offer unmatched flexibility and cost efficiency. 3G-SDI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