

## Fiber Optic Audio Transmission 1-Channel Simplex Analog Audio over Fiber

### System Design

#### Fiber Optic Audio Transmitter & Receiver

VOS-0100FT/R provides for the 1-Channel Simplex 24-Bit Digitally Encoded Analog Audio. Ideal for Broadcast /Studio, CCTV audio and Professional AV applications.

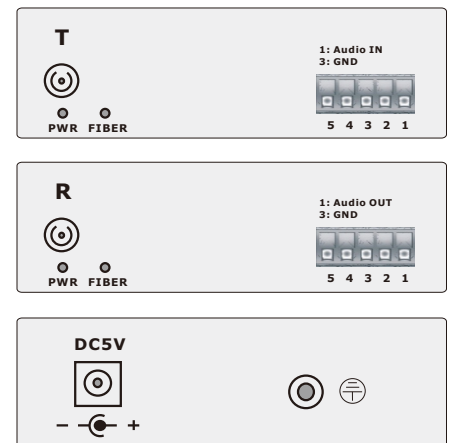
**Stand-alone or rack-mount.** All units of VOS-0100FT/R come in an insert card version. The cards can be inserted into our 16-slot, 19inch 2U or 4U rack-mountable card cage (VOS-CH02, VOS-CH04).

### Features

- Support Point-to-Point or Daisy-Chain connection
- 24-Bit Digitally Encoded Analog Audio over one fiber
- Multi-mode Fiber Support for Distances up to 500m
- Single-Mode Fiber Support for Distances up to 60 km
- LED Status Provide Rapid Indication of Operating Parameters
- No EMI or RFI and no ground loops
- Stand alone or rack-mount
- Produce according to customer's specifications, providing OEM

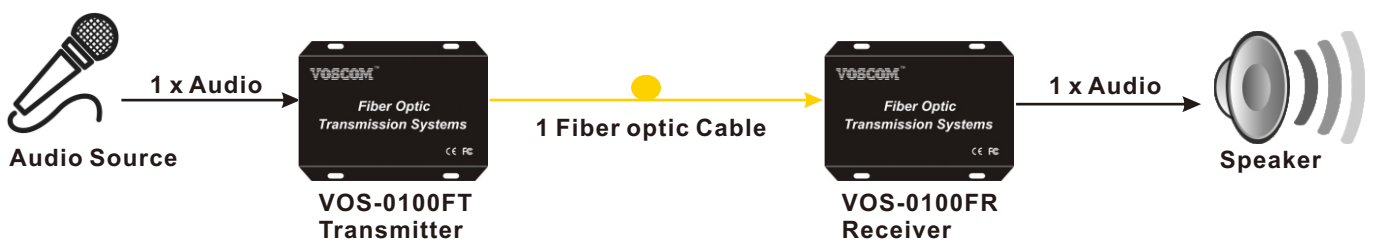


### Panel

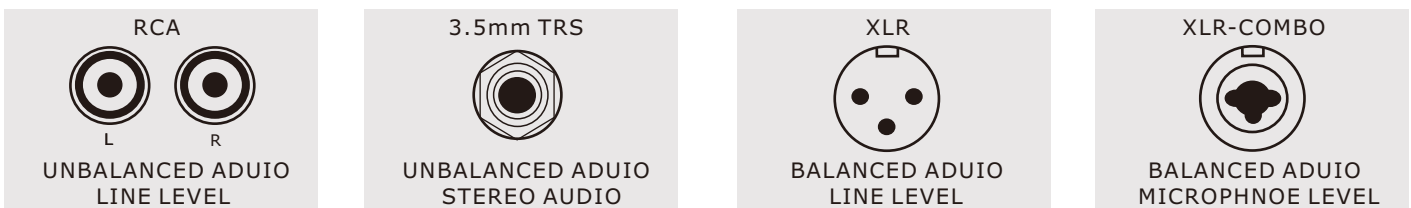


- Video
- 1** → Audio
- Data
- Ethernet

### Typical Configuration



### Multiple Audio and Connectors



\* If you need other audio connectors, please contact us for the details

# Analog Audio over Fiber

## Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power Budget	Maximum Transmission Distance
Transmitter	Receiver				
VOS-0100FMT	VOS-0100FMR	Multi-Mode	1310nm	16dB	500m
VOS-0100FST	VOS-0100FSR	Single-Mode	1310nm	12dB	20km
VOS-0100FST-4	VOS-0100FSR-4	Single-Mode	1310nm	18dB	40km
VOS-0100FST-6	VOS-0100FSR-6	Single-Mode	1550nm	25dB	60km

### Note:

- The Optical Power Budget data fit Multit-mode(62.5/125  $\mu\text{m}$ ),Single-Mode(9/125  $\mu\text{m}$ ).
- When using 50/125  $\mu\text{m}$ . 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

<p><b>• Audio</b></p> <p>Number of Channels: 1-Channel Simplex Audio            Audio input/output Level: +4dBu nominal            Audio Type: Unbalanced, Line Level            Audio in/output impedance: 600<math>\Omega</math>            Frequency Response : 20Hz ~ 20KHz            Sample Rate : 48KHz, 24K bit rate            Signal-to-Noise Ratio(SNR): &gt; 82 dB            Distortion: &lt;0.05%</p>	<p><b>• Connectors</b></p> <p>Audio: Terminal Block            Optical: FC/PC or ST/PC Optional            Stand-Alone Power: Screw terminal block            Rack Power: AC line cord</p>
	<p><b>• Electrical &amp; Mechanical</b></p> <p>Input Power Requirements: DC 5V@1A            Power Adapter: AC 100V~240V            Power Consumption: &lt; 3W            Stand-Alone Dimensions: 104mm x 104mm x 28mm            Shipping Weight: 1.0kg (include TX &amp; RX)</p>
	<p><b>• Environmental</b></p> <p>Operating Temperature: -45°C~+75°C            Storage Temperature: -45°C~+85°C            Relative Humidity: 0%~95% (non-condensing)            MTBF: &gt;100,000 hours</p>