

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

#### System Design

Video

Fiber Optic Audio Transmitter & Receiver  
VOS-0100FT/R provides for the 24-Bit digitally transmission of 1-Channel Simplex Analog Audio. Ideal for Broadcast /Studio, CCTV audio and Professional AV applications.



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Audio

Stand-alone or rack-mount. All units of VOS-0100FT/R come in an insert card version. The cards can be inserted into our our 14-slot, 19inch 2U, 4u or 6U rack-mountable card cage (VOS-CH02, VOS-CH04 or VOS-CH06).

Data

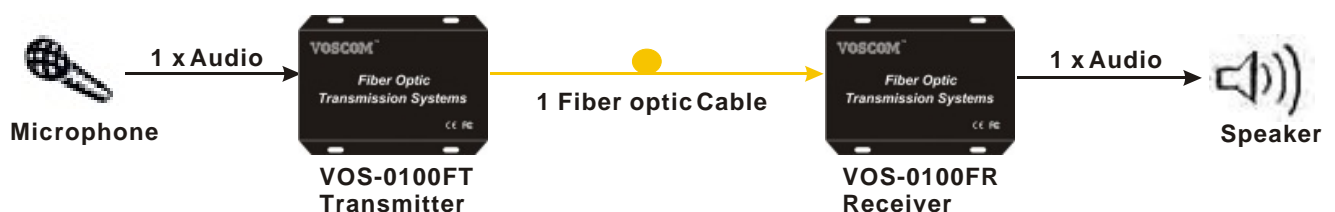
Single-Mode or Multi-Mode, VOS-0100FT/R can support FC /PC or ST/PC Optical connector, can be used in Daisy-Chain system (Need to customize). The Transmission distance range according to the Optical Budget. Manufacturer's standard is: Single-mode 20km or Multi-mode 2km.

Ethernet

#### Features

- Support Point-to-Point or Daisy-Chain connection
- 24-Bit Digitally Encoded Audio over one fiber
- Multi-mode Fiber Support for Distances up to 2.0 km
- Single-Mode Fiber Support for Distances up to 100 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

#### Typical Configuration



# 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	2km
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 Multi-mode(62.5/125  $\mu$  m), Single-Mode(9/125  $\mu$  m).
- When using 50/125  $\mu$  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

<ul style="list-style-type: none"> <li>• Audio</li> </ul>	<ul style="list-style-type: none"> <li>• Connectors</li> </ul>
Number of Channels: 1-Channel Simplex Audio Audio input/output Level: 6 dBm Audio in/output impedance: 600 $\Omega$ Unbalanced Bandwidth: 20Hz ~ 20KHz Bit Resolution: 24-Bit Signal-to-Noise Ratio(SNR): > 80 dB	Audio: Terminal Block Optical: FC/PC or ST/PC Optional Stand-Alone Power: Screw terminal block Rack Power: AC line cord
	<ul style="list-style-type: none"> <li>• Electrical &amp; Mechanical</li> </ul>
	Input Power Requirements: DC 5V@2A Power Adapter: AC 100V~240V Power Consumption: < 3W Stand-Alone Dimensions: 95mm $\times$ 70mm $\times$ 25mm Card for 2U Rack Dimensions: 95mm $\times$ 70mm $\times$ 25mm Card for 4U Rack Dimensions: 145mm $\times$ 170mm $\times$ 20mm Shipping Weight: 1.2kg (include TX & RX)
	<ul style="list-style-type: none"> <li>• Environmental</li> </ul>
	Operating Temperature: -45 $^{\circ}$ C ~ +75 $^{\circ}$ C Storage Temperature: -45 $^{\circ}$ C ~ +85 $^{\circ}$ C Relative Humidity: 0% ~ 95% (non-condensing) MTBF: >100,000 hours