

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.



1 →
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.

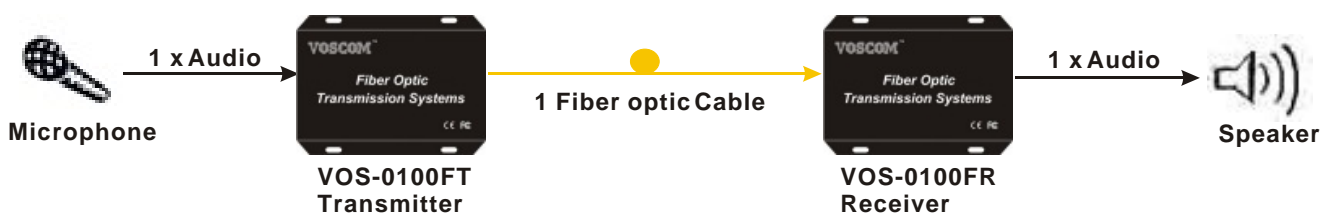


Ethernet

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 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

<ul style="list-style-type: none"> • Audio <p>Number of Channels: 1-Channel Simplex Audio Audio input/output Level: 6 dBm Audio in/output impedance: 600Ω Unbalanced Bandwidth: 20Hz ~ 20KHz Bit Resolution: 24-Bit Signal-to-Noise Ratio(SNR): > 80 dB</p>	<ul style="list-style-type: none"> • Connectors <p>Audio: Terminal Block Optical: FC/PC or ST/PC Optional Stand-Alone Power: Screw terminal block Rack Power: AC line cord</p>
	<ul style="list-style-type: none"> • Electrical & Mechanical <p>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)</p>
	<ul style="list-style-type: none"> • Environmental <p>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</p>