

Fiber Optic Audio Transmission 1-Channel Duplex Analog Audio over Fiber

System Design

Fiber Optic Audio Transmitter & Receiver

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

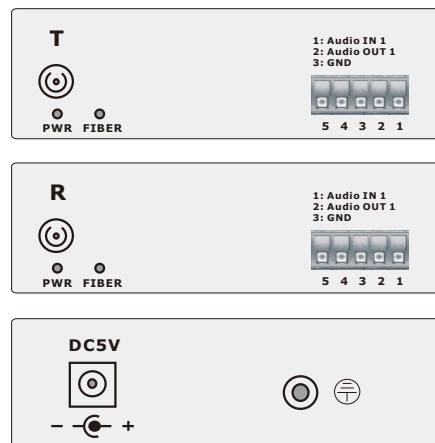
Stand-alone or rack-mount. All units of VOS-0100DT/R come in an insert card version. The cards can be inserted into our 14-slot, 19inch 2U or 4U rack-mountable card cage (VOS-CH02, VOS-CH04).

Features

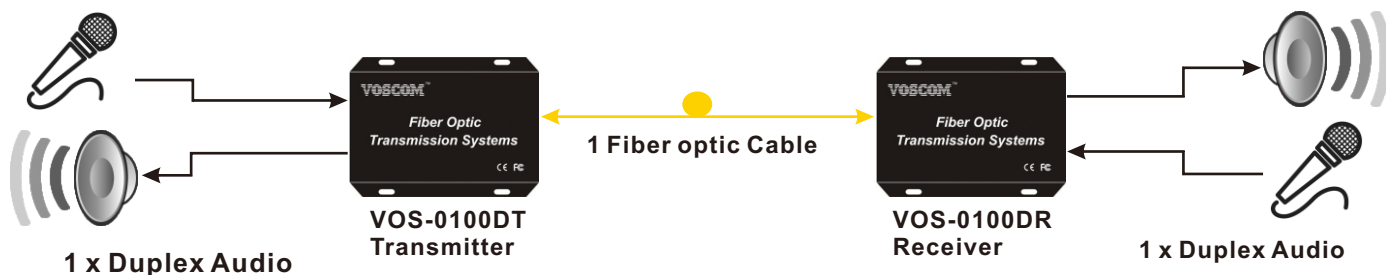
- Support Point-to-Point or Daisy-Chain connection
- 24-Bit Digitally Encoded Analog Audio over one fiber
- Multi-mode Fiber Support for Distances up to 500m
- Single-Mode Fiber Support for Distances up to 60 km
- LED Status Provide Rapid Indication of Operating Parameters
- No EMI or RFI and no ground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



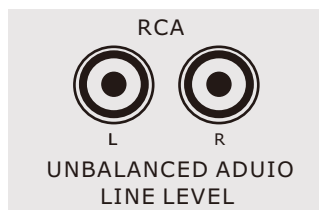
Panel



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-0100DMT	VOS-0100DMR	Multi-Mode	1310/1550nm	16dB	500m
VOS-0100DST	VOS-0100DSR	Single-Mode	1310/1550nm	12dB	20km
VOS-0100DST-4	VOS-0100DSR-4	Single-Mode	1310/1550nm	18dB	40km
VOS-0100DST-6	VOS-0100DSR-6	Single-Mode	1310/1550nm	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

• Audio

Number of Channels: 1-Channel Duplex Audio
Audio input/output Level: +4dBu nominal
Audio Type: Unbalanced, Line Level
Audio in/output impedance: 600 Ω
Frequency Response: 20Hz ~ 20KHz
Sample Rate: 48KHz, 24K bit rate
Signal-to-Noise Ratio(SNR): > 82 dB
Distortion: <0.05%

• Connectors

Audio: Terminal Block
Optical: FC/PC or ST/PC Optional
Stand-Alone Power: Screw terminal block
Rack Power: AC line cord

• Electrical & Mechanical

Input Power Requirements: DC 5V@1A
Power Adapter: AC 100V~240V
Power Consumption: < 3W
Stand-Alone Dimensions: 104mm x 104mm x 28mm
Shipping Weight: 1.0kg (include TX & RX)

• Environmental

Operating Temperature: -45°C~+75°C
Storage Temperature: -45°C~+85°C
Relative Humidity: 0%~95% (non-condensing)
MTBF: >100,000 hours