

## Fiber Optic Audio Transmission 4-Channel Duplex Analog Audio over Fiber

### System Design

#### Fiber Optic Audio Transmitter & Receiver

VOS-0400DT/R provides for the 4-Channel Duplex 24-Bit Digitally Encoded Analog Audio. Ideal for Broadcast /Studio, CCTV audio and Professional AV applications.

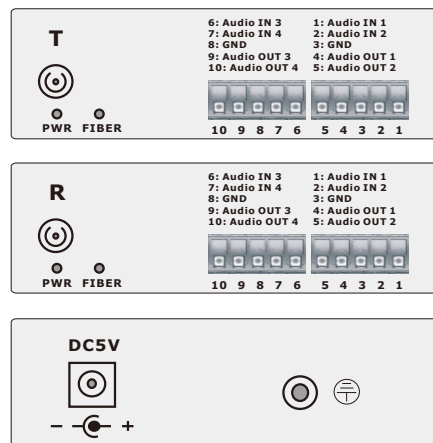
**Stand-alone or rack-mount.** All units of VOS-0400DT/R come in an insert card version. The cards can be inserted into our 14-slot, 19inch 2U or 4U rack-mountable card cage (VOS-CH02, VOS-CH04).

### Features

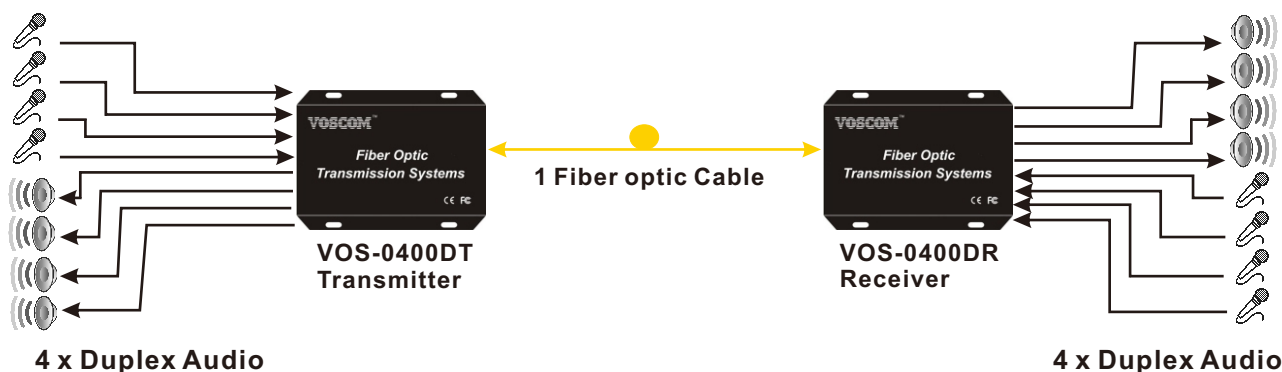
- Support Point-to-Point or Daisy-Chain connection
- 24-Bit Digitally Encoded Analog Audio over one fiber
- Multi-mode Fiber Support for Distances up to 500m
- Single-Mode Fiber Support for Distances up to 60 km
- LED Status Provide Rapid Indication of Operating Parameters
- No EMI or RFI and no ground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



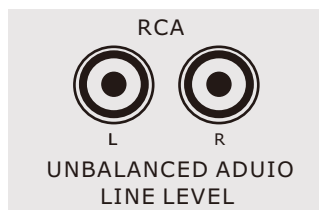
### Panel



### 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-0400DMT	VOS-0400DMR	Multi-Mode	1310/1550nm	16dB	500m
VOS-0400DST	VOS-0400DSR	Single-Mode	1310/1550nm	12dB	20km
VOS-0400DST-4	VOS-0400DSR-4	Single-Mode	1310/1550nm	18dB	40km
VOS-0400DST-6	VOS-0400DSR-6	Single-Mode	1310/1550nm	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

### • Audio

Number of Channels: 4-Channel Duplex Audio  
Audio input/output Level: +4dBu nominal  
Audio Type: Unbalanced, Line Level  
Audio in/output impedance: 600 $\Omega$   
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