Audio over Fiber

VOSCOM's Audio over Fiber Converter / Extender support 1~8 Channel broadcast quality audio over one multi-mode or single-mode optical fiber. The audio over fiber extender ensures high quality signals with no interference, they are typically used in applications for Rental, Staging, Theater, Stadiums, Theme Parks, Broadcast/Studio, Audio Visual systems, Public Address Systems and Professional AV applications, etc.

The Audio over Fiber Converter support Analog or Digital audio, Balanced or Unbalanced Audio, Line level or Micro Level. and the audio connectors support terminal block, RCA, 3.5mm TRS jack, XLR and XLR-COMBO. These versatile options empower customers to select the ideal setup for their specific requirements, whether for professional audio systems, home entertainment, or on-the-go applications. The wide range of supported connectors and signal levels ensures seamless integration into diverse audio environments—from studio-grade recording setups to casual multimedia setups —making the converter a flexible choice for any audio transmission need.

Features

- Analog Audio or Digital Audio
- Balanced or Unbalanced Audio
- Line Level or Microphone Level
- 8x Mic Level Inputs / outputs with Phantom Power
- 8x Line Level Analog Audio Inputs / outputs
- 8x Digital Audio AES/EBU Inputs / outputs
- Terminal Block, RCA, 3.5mm TRS Jack
- XLR Connector for Line Level Balanced Audio
- XLR-COMBO Connector for Mic Level Audio

Applications

- Broadcast / Studio
- Audio Visual systems
- Public Address Systems
- Live Music & Entertainment
- Live Cinematic Multi-cam
- Live Sports Broadcast
- ENG, EFP
- High-Definition Video Surveillance
- High-Definition Pro Audio Visual

Balanced Audio over Fiber
Mic Level

Balanced Audio over Fiber
Line Level

AES/EBU over Fiber

Unbalanced Audio over Fiber
Terminal Block

Unbalanced Audio over Fiber
RCA Connector

Stereo Audio over Fiber
3.5mm Jack

Ordering Information

Part Number	Description
VOS-0100FT/R	1-Channel Simplex Analog Audio, Terminal Block Connector
VOS-0200FT/R	2-Channel Simplex Analog Audio, Terminal Block Connector
VOS-0400FT/R	4-Channel Simplex Analog Audio, Terminal Block Connector
VOS-0800FT/R	8-Channel Simplex Analog Audio, Terminal Block Connector
VOS-0100DT/R	1-Channel Duplex Analog Audio, Terminal Block Connector
VOS-0200DT/R	2-Channel Duplex Analog Audio, Terminal Block Connector
VOS-0400DT/R	4-Channel Duplex Analog Audio, Terminal Block Connector
VOS-1TRS35-FT/R	1-Channel Simplex Analog Stereo Audio, 3.5mm TRS Jack
VOS-1TRS35-DT/R	1-Channel Duplex Analog Stereo Audio, 3.5mm TRS Jack
VOS-2RCA-FT/R	2-Channel Simplex Analog Audio (1-Channel Stereo), RCA Connector
VOS-2RCA-DT/R	2-Channel Duplex Analog Audio (1-Ch Duplex Stereo), RCA Connector
VOS-2XLR-FT/R	2-Channel Simplex Analog Balanced Audio, XLR Connector, Line Level
VOS-2XLR-DT/R	2-Channel Duplex Analog Balanced Audio, XLR Connector, Line Level
VOS-4XLR-FT/R	4-Channel Simplex Analog Balanced Audio, XLR Connector, Line Level
VOS-4XLR-DT/R	4-Channel Duplex Analog Balanced Audio, XLR Connector, Line Level
VOS-8XLR-FT/R	8-Channel Simplex Analog Balanced Audio, XLR Connector, Line Level
VOS-2XLRC-DT/R	2-Channel Duplex Analog Balanced Audio, XLR-COMBO Connector, Microphone Level
VOS-4XLRC-FT/R	4-Channel Simplex Analog Balanced Audio, XLR-COMBO Connector, Microphone Level
VOS-2AES-DT/R	2-Channel Duplex Digital AES/EBU Balanced Audio, XLR Connector
VOS-4AES-FT/R	4-Channel Simplex Digital AES/EBU Balanced Audio, XLR Connector

Details link: https://www.voscom.com/audio-over-fiber/

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.

Video

1 Audio

Data

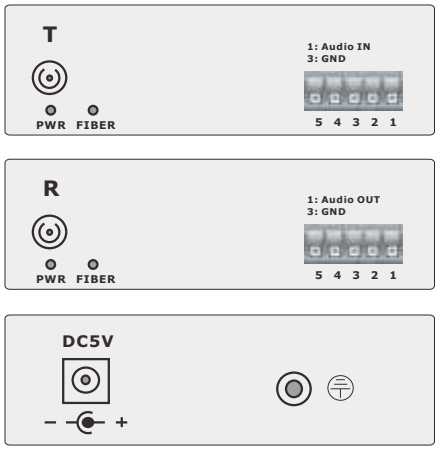
Ethernet

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 or 4U rack-mountable card cage (VOS-CH02, VOS-CH04).

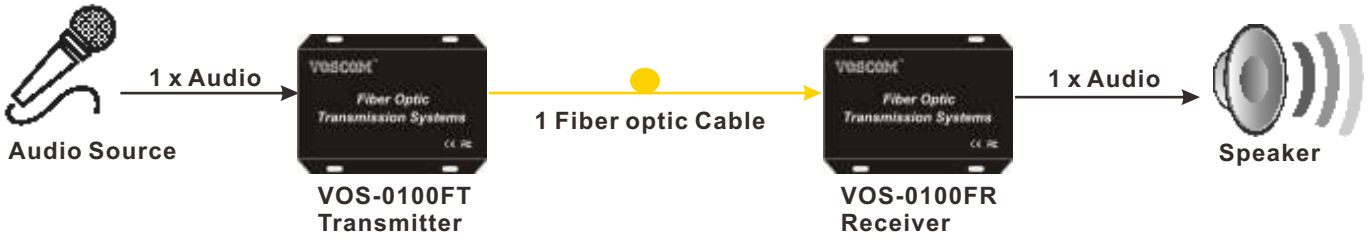
Features

- 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

RCA	3.5mm TRS	XLR	XLR-COMBO
L R			
UNBALANCED ADUIO LINE LEVEL	UNBALANCED ADUIO STEREO AUDIO	BALANCED ADUIO LINE LEVEL	BALANCED ADUIO MIRCOPHNOE LEVEL

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

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 Mulit-mode(62.5/125 μm),Single-Mode(9/125 μm).
- When using 50/125 μM. 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 Simplex Audio
Audio input/output Level:	+4dBu nominal
Audio Type:	Unbalanced, Line Level
Audio in/output impedance:	600Ω
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

VOSCOM

VOS-0200FT/R

Fiber Optic Audio Transmission
2-Channel Simplex Analog Audio over Fiber

Video

2 Audio

Data

Ethernet

System Design

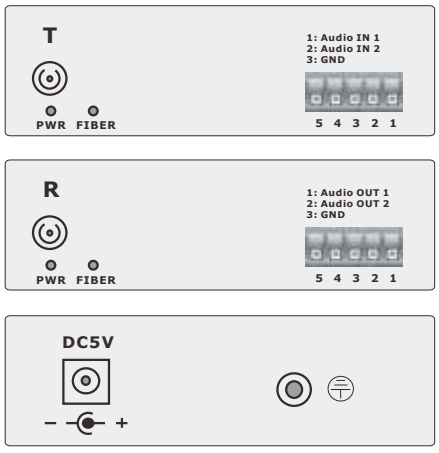
Fiber Optic Audio Transmitter & Receiver
VOS-0200FT/R provides for the 2-Channel Simplex 24-Bit Digitally Encoded Analog Audio. Ideal for Broadcast /Studio, CCTV audio and Professional AV applications.

Stand-alone or rack-mount. All units of VOS-0200FT/R come in an insert card version. The cards can be inserted into our our 14-slot, 19inch 2U or 4U rack-mountable card cage (VOS-CH02, VOS-CH04).

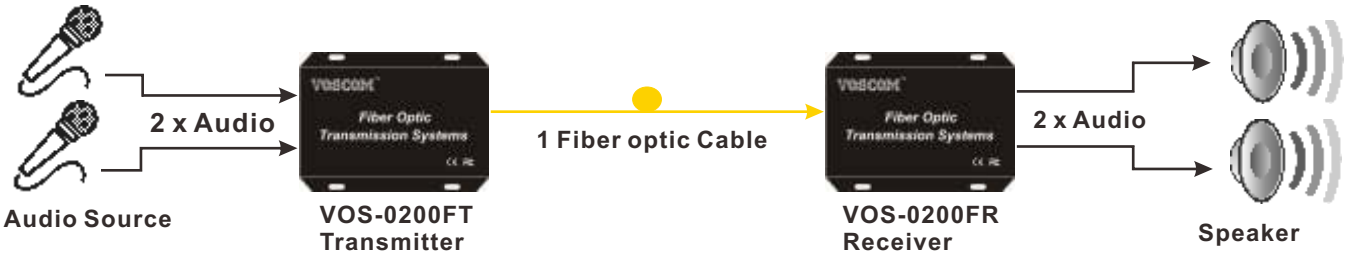
Features

- 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

RCA	3.5mm TRS	XLR	XLR-COMBO
L R			
UNBALANCED ADUIO LINE LEVEL	UNBALANCED ADUIO STEREO AUDIO	BALANCED ADUIO LINE LEVEL	BALANCED ADUIO MIRCOPHNOE LEVEL

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

Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power Budget	Maximum Transmission Distance
Transmitter	Receiver				
VOS-0200FMT	VOS-0200FMR	Multi-Mode	1310nm	16dB	500m
VOS-0200FST	VOS-0200FSR	Single-Mode	1310nm	12dB	20km
VOS-0200FST-4	VOS-0200FSR-4	Single-Mode	1310nm	18dB	40km
VOS-0200FST-6	VOS-0200FSR-6	Single-Mode	1550nm	25dB	60km

Note:

- The Optical Power Budget data fit Mulit-mode(62.5/125 μm),Single-Mode(9/125 μm).
- When using 50/125 μM. 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:	2-Channel Simplex Audio
Audio input/output Level:	+4dBu nominal
Audio Type:	Unbalanced, Line Level
Audio in/output impedance:	600Ω
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

VOSCOM

VOS-0400FT/R

Fiber Optic Audio Transmission
4-Channel Simplex Analog Audio over Fiber

System Design

Fiber Optic Audio Transmitter & Receiver
VOS-0400FT/R provides for the 4-Channel Simplex 24-Bit Digitally Encoded Analog Audio. Ideal for Broadcast /Studio, CCTV audio and Professional AV applications.

Video

4 Audio

Data

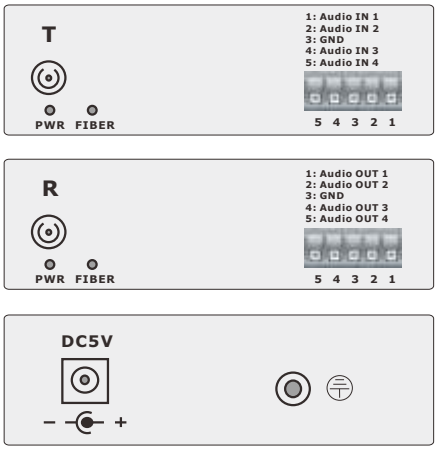
Ethernet

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

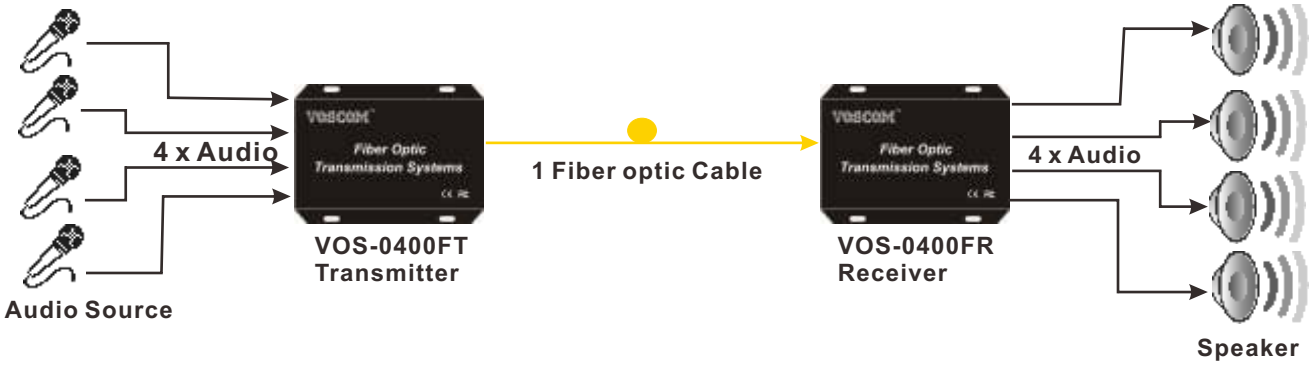
Features

- 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

RCA	3.5mm TRS	XLR	XLR-COMBO
L R			
UNBALANCED ADUIO LINE LEVEL	UNBALANCED ADUIO STEREO AUDIO	BALANCED ADUIO LINE LEVEL	BALANCED ADUIO MIRCOPHNOE LEVEL

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

Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power Budget	Maximum Transmission Distance
Transmitter	Receiver				
VOS-0400FMT	VOS-0400FMR	Multi-Mode	1310nm	16dB	500m
VOS-0400FST	VOS-0400FSR	Single-Mode	1310nm	12dB	20km
VOS-0400FST-4	VOS-0400FSR-4	Single-Mode	1310nm	18dB	40km
VOS-0400FST-6	VOS-0400FSR-6	Single-Mode	1550nm	25dB	60km

Note:

- The Optical Power Budget data fit Mulit-mode(62.5/125 μm),Single-Mode(9/125 μm).
- When using 50/125 μM. 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 Simplex Audio
Audio input/output Level:	+4dBu nominal
Audio Type:	Unbalanced, Line Level
Audio in/output impedance:	600Ω
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

VOS-0800FT/R

Fiber Optic Audio Transmission
8-Channel Simplex Analog Audio over Fiber

System Design

Fiber Optic Audio Transmitter & Receiver
VOS-0800FT/R provides for the 8-Channel Simplex 24-Bit Digitally Encoded Analog Audio. Ideal for Broadcast /Studio, CCTV audio and Professional AV applications.

Video

8 Audio

Data

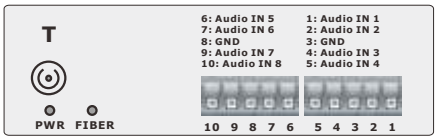
Ethernet

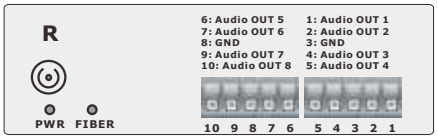
Stand-alone or rack-mount. All units of VOS-0800FT/R come in an insert card version. The cards can be inserted into our our 14-slot, 19inch 2U or 4U rack-mountable card cage (VOS-CH02, VOS-CH04).

Features

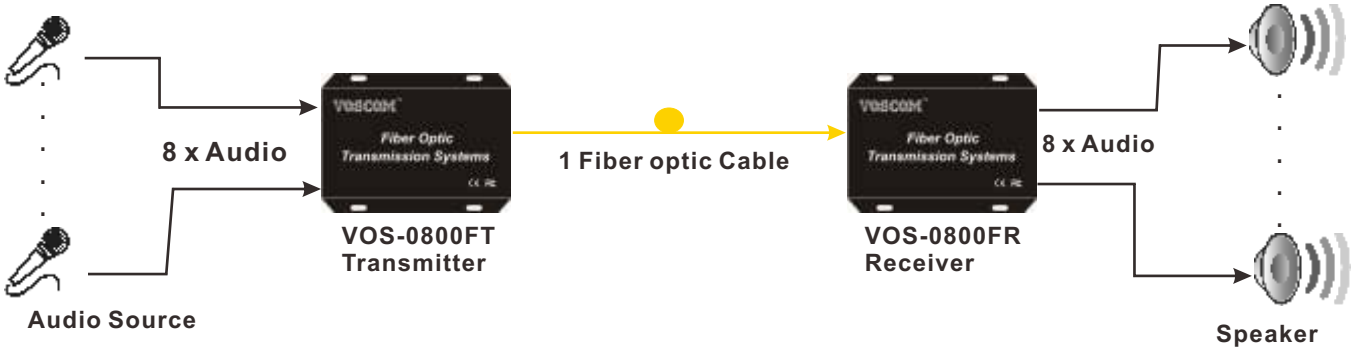
- Support Point-to-Point or Daisy-Chain connection
- 24-Bit Digitally Encoded Analog Audio over one fiber
- Multi-mode Fiber Support for Distances up to 500m
- Single-Mode Fiber Support for Distances up to 60 km
- LED Status Provide Rapid Indication of Operating Parameters
- No EMI or RFI and no ground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

Panel





Typical Configuration



Multiple Audio and Connectors

RCA	3.5mm TRS	XLR	XLR-COMBO
L R			
UNBALANCED ADUIO LINE LEVEL	UNBALANCED ADUIO STEREO AUDIO	BALANCED ADUIO LINE LEVEL	BALANCED ADUIO MIRCOPHNOE LEVEL

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

Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power Budget	Maximum Transmission Distance
Transmitter	Receiver				
VOS-0800FMT	VOS-0800FMR	Multi-Mode	1310nm	16dB	500m
VOS-0800FST	VOS-0800FSR	Single-Mode	1310nm	12dB	20km
VOS-0800FST-4	VOS-0800FSR-4	Single-Mode	1310nm	18dB	40km
VOS-0800FST-6	VOS-0800FSR-6	Single-Mode	1550nm	25dB	60km

Note:

- The Optical Power Budget data fit Mulit-mode(62.5/125 μm),Single-Mode(9/125 μm).
- When using 50/125 μM. 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:	8-Channel Simplex Audio
Audio input/output Level:	+4dBu nominal
Audio Type:	Unbalanced, Line Level
Audio in/output impedance:	600Ω
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

VOS-0100DT/R

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

Video

1 Audio

Data

Ethernet

System Design

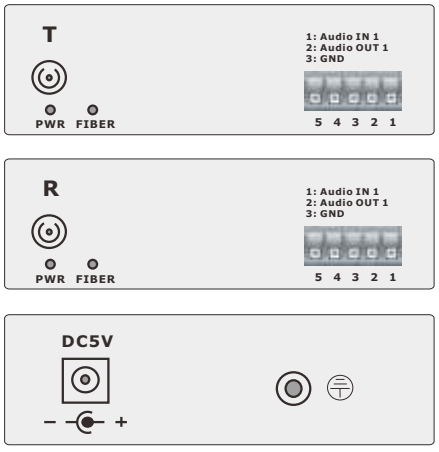
Fiber Optic Audio Transmitter & Receiver
VOS-0100DT/R provides for the 1-Channel Duplex 24-Bit Digitally Encoded Analog Audio. Ideal for Broadcast /Studio, CCTV audio and Professional AV applications.

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

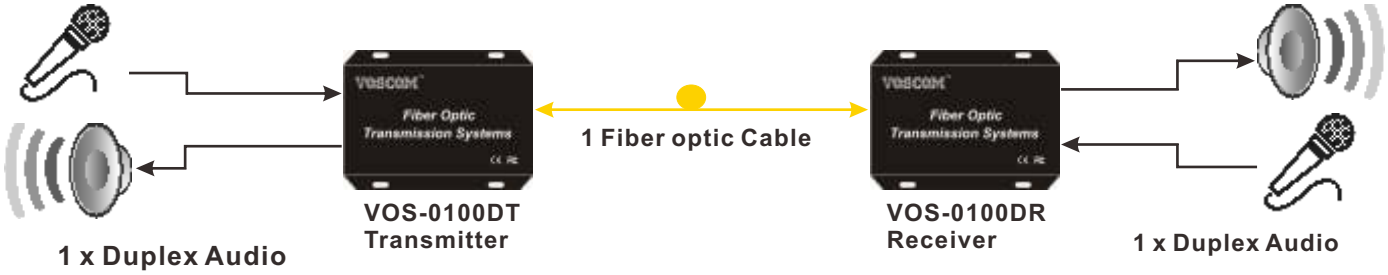
Features

- 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

RCA	3.5mm TRS	XLR	XLR-COMBO
L R			
UNBALANCED ADUIO LINE LEVEL	UNBALANCED ADUIO STEREO AUDIO	BALANCED ADUIO LINE LEVEL	BALANCED ADUIO MIRCOPHNOE LEVEL

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

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 Mulit-mode(62.5/125 μm),Single-Mode(9/125 μm).
- When using 50/125 μM. 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:	600Ω
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

VOS-0200DT/R

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

Video

2 Audio

Data

Ethernet

System Design

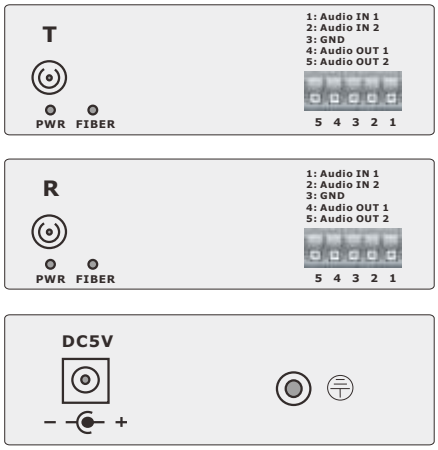
Fiber Optic Audio Transmitter & Receiver
VOS-0200DT/R provides for the 2-Channel Duplex 24-Bit Digitally Encoded Analog Audio. Ideal for Broadcast /Studio, CCTV audio and Professional AV applications.

Stand-alone or rack-mount. All units of VOS-0200DT/R come in an insert card version. The cards can be inserted into our our 14-slot, 19inch 2U or 4U rack-mountable card cage (VOS-CH02, VOS-CH04).

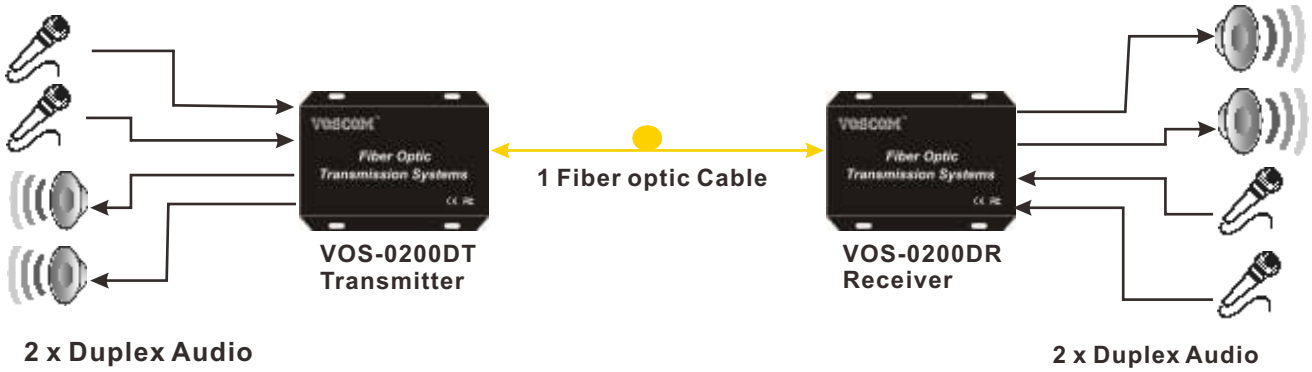
Features

- 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

RCA	3.5mm TRS	XLR	XLR-COMBO
L R			
UNBALANCED ADUIO LINE LEVEL	UNBALANCED ADUIO STEREO AUDIO	BALANCED ADUIO LINE LEVEL	BALANCED ADUIO MIRCOPHNOE LEVEL

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

Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power Budget	Maximum Transmission Distance
Transmitter	Receiver				
VOS-0200DMT	VOS-0200DMR	Multi-Mode	1310/1550nm	16dB	500m
VOS-0200DST	VOS-0200DSR	Single-Mode	1310/1550nm	12dB	20km
VOS-0200DST-4	VOS-0200DSR-4	Single-Mode	1310/1550nm	18dB	40km
VOS-0200DST-6	VOS-0200DSR-6	Single-Mode	1310/1550nm	25dB	60km

Note:

- The Optical Power Budget data fit Mulit-mode(62.5/125 μm),Single-Mode(9/125 μm).
- When using 50/125 μM. 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:	2-Channel Duplex Audio
Audio input/output Level:	+4dBu nominal
Audio Type:	Unbalanced, Line Level
Audio in/output impedance:	600Ω
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

VOS-0400DT/R

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.

Video

4 Audio

Data

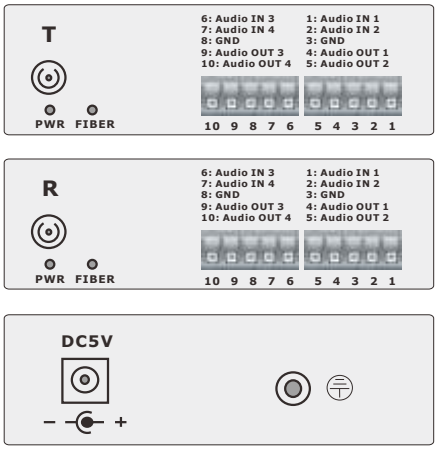
Ethernet

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

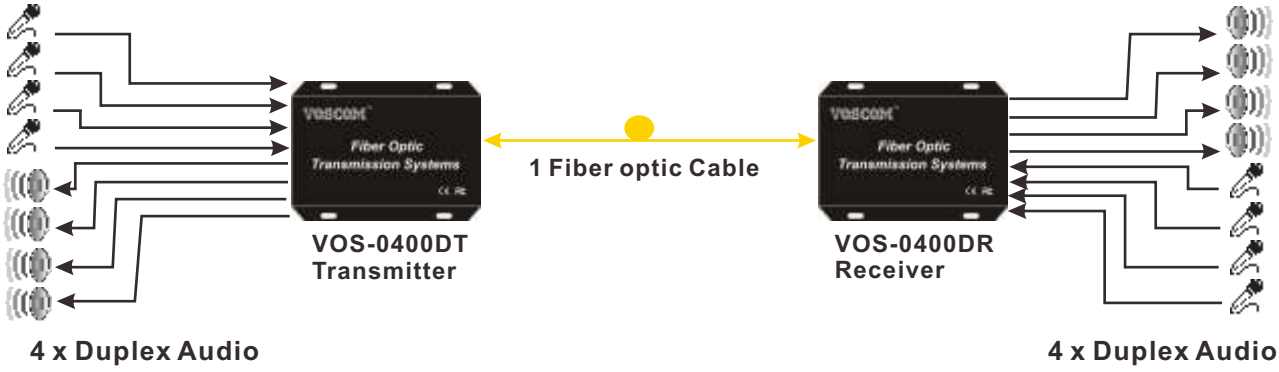
Features

- 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

RCA	3.5mm TRS	XLR	XLR-COMBO
L R			
UNBALANCED ADUIO LINE LEVEL	UNBALANCED ADUIO STEREO AUDIO	BALANCED ADUIO LINE LEVEL	BALANCED ADUIO MIRCOPHNOE LEVEL

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

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 Mulit-mode(62.5/125 μm),Single-Mode(9/125 μm).
- When using 50/125 μM. 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:	600Ω
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

VOS-1TRS35-FT/R

1-Channel Simplex Stereo Audio over Fiber with 3.5mm TRS Jack

System Design

Fiber Optic Audio Transmitter & Receiver
VOS-1TRS35-FT/R provides for the 1-Channel Simplex 24-Bit Digitally Encoded Stereo Audio. Ideal for Broadcast /Studio, CCTV audio and Professional AV applications.

Video

1 Stereo Audio

Data

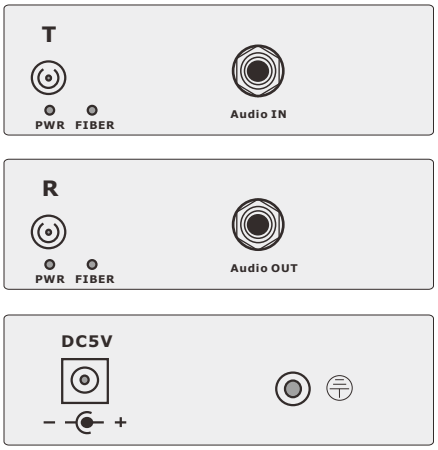
Ethernet

Stand-alone or rack-mount. All units of VOS-1TRS35-FT/R come in an insert card version. The cards can be inserted into our our 14-slot, 19inch 2U or 4U rack-mountable card cage (VOS-CH02, VOS-CH04).

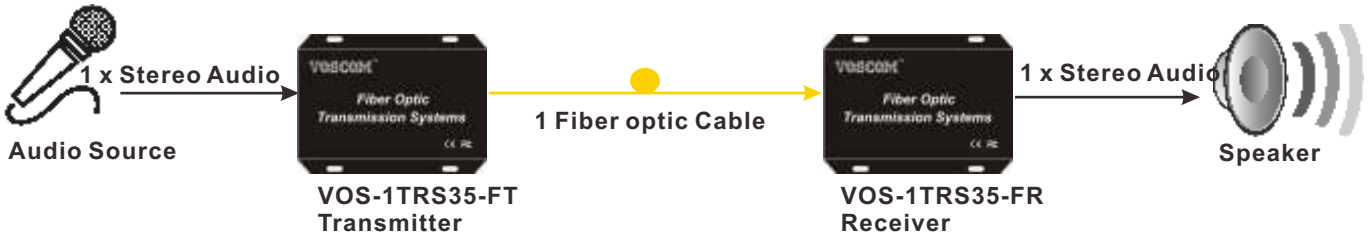
Features

- 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

TERMINAL BLOCK	RCA	XLR	XLR-COMBO
	 L R		
UNBALANCED ADUIO LINE LEVEL	UNBALANCED ADUIO LINE LEVEL	BALANCED ADUIO LINE LEVEL	BALANCED ADUIO MIRCOPHNOE LEVEL

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

Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power Budget	Maximum Transmission Distance
Transmitter	Receiver				
VOS-1TRS35-FMT	VOS-1TRS35-FMR	Multi-Mode	1310nm	16dB	500m
VOS-1TRS35-FST	VOS-1TRS35-FSR	Single-Mode	1310nm	12dB	20km
VOS-1TRS35-FST-4	VOS-1TRS35-FSR-4	Single-Mode	1310nm	18dB	40km
VOS-1TRS35-FST-6	VOS-1TRS35-FSR-6	Single-Mode	1550nm	25dB	60km

Note:

- The Optical Power Budget data fit Mulit-mode(62.5/125 μm),Single-Mode(9/125 μm).
- When using 50/125 μM. 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-Ch Simplex Stereo Audio
Audio input/output Level:	+4dBu nominal
Audio Type:	Unbalanced, Line Level
Audio in/output impedance:	600Ω
Frequency Response :	20Hz ~ 20KHz
Sample Rate :	48KHz, 24K bit rate
Signal-to-Noise Ratio(SNR):	> 82 dB
Distortion:	<0.05%

• Connectors

Audio:	3.5mm TRS Jack
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

VOS-1TRS35-DT/R

1-Channel Duplex Stereo Audio over Fiber with 3.5mm TRS Jack

Video

1 Stereo Audio

Data

Ethernet

System Design

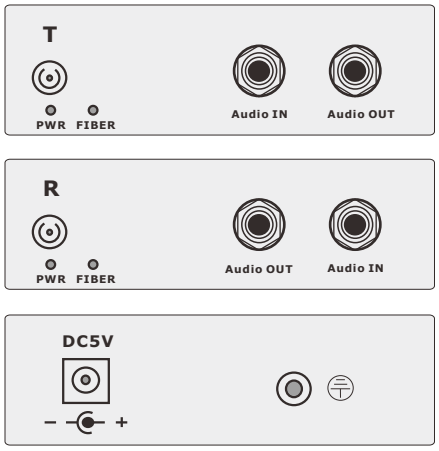
Fiber Optic Audio Transmitter & Receiver
VOS-1TRS35-DT/R provides for the 1-Channel Duplex 24-Bit Digitally Encoded Stereo Audio. Ideal for Broadcast /Studio, CCTV audio and Professional AV applications.

Stand-alone or rack-mount. All units of VOS-1TRS35-DT/R come in an insert card version. The cards can be inserted into our our 14-slot, 19inch 2U or 4U rack-mountable card cage (VOS-CH02, VOS-CH04).

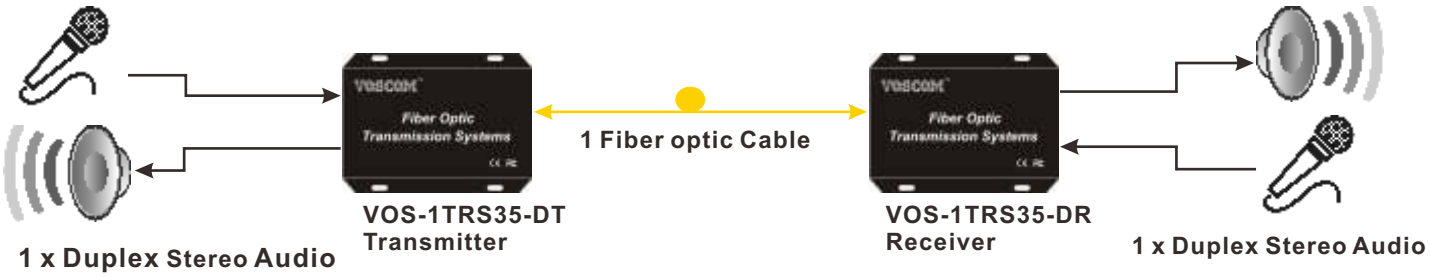
Features

- 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

TERMINAL BLOCK	RCA	XLR	XLR-COMBO
UNBALANCED ADUIO LINE LEVEL	UNBALANCED ADUIO LINE LEVEL	BALANCED ADUIO LINE LEVEL	BALANCED ADUIO MIRCOPHNOE LEVEL

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

Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power Budget	Maximum Transmission Distance
Transmitter	Receiver				
VOS-1TRS35-DMT	VOS-1TRS35-DMR	Multi-Mode	1310/1550nm	16dB	500m
VOS-1TRS35-DST	VOS-1TRS35-DSR	Single-Mode	1310/1550nm	12dB	20km
VOS-1TRS35-DST-4	VOS-1TRS35-DSR-4	Single-Mode	1310/1550nm	18dB	40km
VOS-1TRS35-DST-6	VOS-1TRS35-DSR-6	Single-Mode	1310/1550nm	25dB	60km

Note:

- The Optical Power Budget data fit Mulit-mode(62.5/125 μm),Single-Mode(9/125 μm).
- When using 50/125 μM. 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-Ch Duplex Stereo Audio
Audio input/output Level:	+4dBu nominal
Audio Type:	Unbalanced, Line Level
Audio in/output impedance:	600Ω
Frequency Response :	20Hz ~ 20KHz
Sample Rate :	48KHz, 24K bit rate
Signal-to-Noise Ratio(SNR):	> 82 dB
Distortion:	<0.05%

• Connectors

Audio:	3.5mm TRS Jack
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

VOSCOM

VOS-2RCA-FT/R

2-Channel Simplex Analog Audio over Fiber with RCA (1-Channel Simplex Stereo Audio over Fiber)

Video

2 Audio

Data

Ethernet

System Design

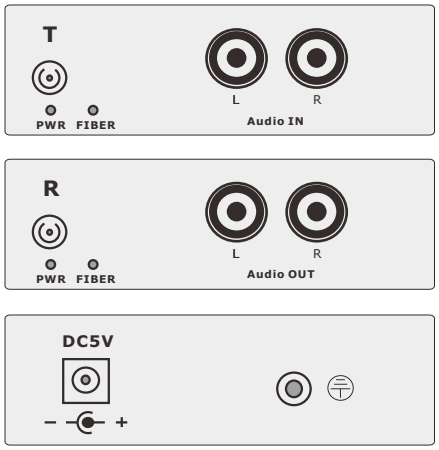
VOS-2RCA-FT/R provides for the 2-Channel Simplex (1-Channel Stereo) 24-Bit Digitally Encoded Analog Audio with RCA connector. Ideal for Broadcast /Studio, CCTV audio and Professional AV applications.

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

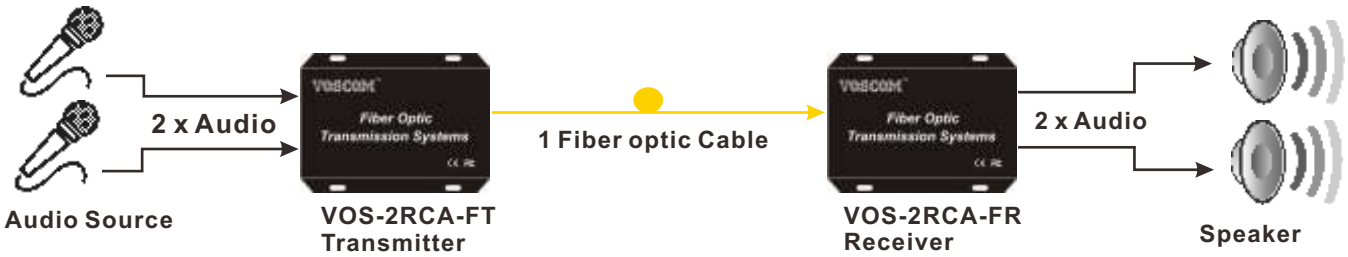
Features

- 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

TERMINAL BLOCK	3.5mm TRS	XLR	XLR-COMBO
			
UNBALANCED ADUIO LINE LEVEL	UNBALANCED ADUIO STEREO AUDIO	BALANCED ADUIO LINE LEVEL	BALANCED ADUIO MIRCOPHNOE LEVEL

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

Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power Budget	Maximum Transmission Distance
Transmitter	Receiver				
VOS-2RCA-FMT	VOS-2RCA-FMR	Multi-Mode	1310nm	16dB	500m
VOS-2RCA-FST	VOS-2RCA-FSR	Single-Mode	1310nm	12dB	20km
VOS-2RCA-FST-4	VOS-2RCA-FSR-4	Single-Mode	1310nm	18dB	40km
VOS-2RCA-FST-6	VOS-2RCA-FSR-6	Single-Mode	1550nm	25dB	60km

Note:

- The Optical Power Budget data fit Mulit-mode(62.5/125 μm),Single-Mode(9/125 μm).
- When using 50/125 μM. 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:	2-Channel Simplex Audio (1-Ch Simplex Stereo Audio)
Audio input/output Level:	+4dBu nominal
Audio Type:	Unbalanced, Line Level
Audio in/output impedance:	600Ω
Frequency Response :	20Hz ~ 20KHz
Sample Rate :	48KHz, 24K bit rate
Signal-to-Noise Ratio(SNR):	> 82 dB
Distortion:	<0.05%

• Connectors

Audio:	RCA Connector
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

VOS-2RCA-DT/R

2-Channel Duplex Analog Audio over Fiber with RCA
(1-Channel Duplex Stereo Audio over Fiber)

System Design

VOS-2RCA-DT/R provides for the 2-Channel Duplex (1-Ch Duplex Stereo) 24-Bit Digitally Encoded Analog Audio with RCA connector. Ideal for Broadcast /Studio, CCTV audio and Professional AV applications.

Video

2 Audio

Data

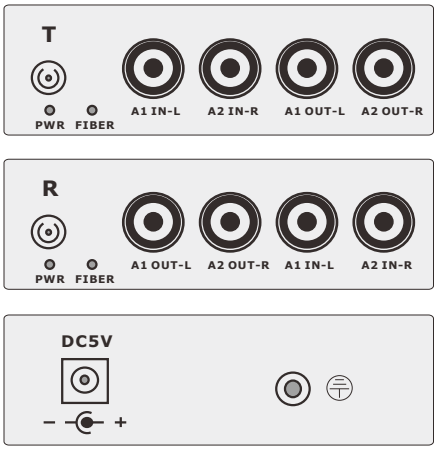
Ethernet

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

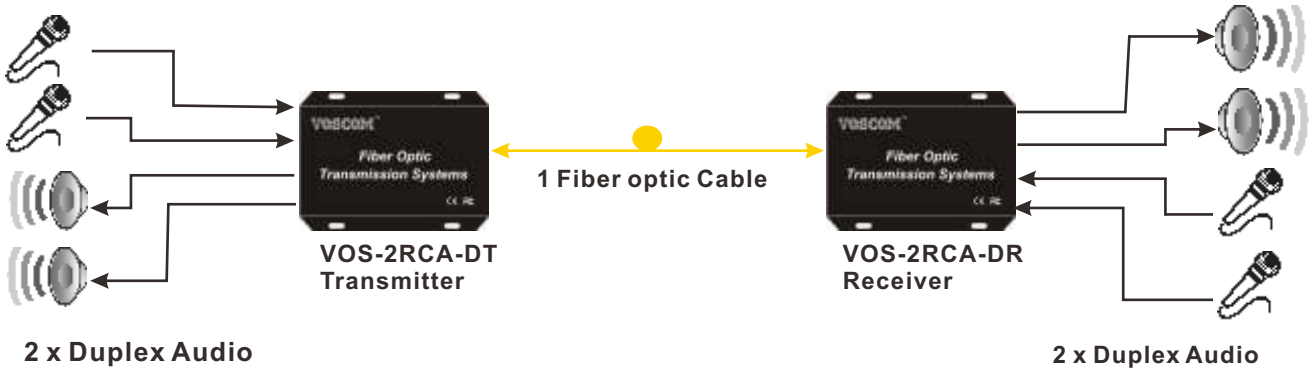
Features

- 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

TERMINAL BLOCK	3.5mm TRS	XLR	XLR-COMBO
UNBALANCED ADUIO LINE LEVEL	UNBALANCED ADUIO STEREO AUDIO	BALANCED ADUIO LINE LEVEL	BALANCED ADUIO MIRCOPHNOE LEVEL

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

Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power Budget	Maximum Transmission Distance
Transmitter	Receiver				
VOS-2RCA-DMT	VOS-2RCA-DMR	Multi-Mode	1310/1550nm	16dB	500m
VOS-2RCA-DST	VOS-2RCA-DSR	Single-Mode	1310/1550nm	12dB	20km
VOS-2RCA-DST-4	VOS-2RCA-DSR-4	Single-Mode	1310/1550nm	18dB	40km
VOS-2RCA-DST-6	VOS-2RCA-DSR-6	Single-Mode	1310/1550nm	25dB	60km

Note:

- The Optical Power Budget data fit Mulit-mode(62.5/125 μm),Single-Mode(9/125 μm).
- When using 50/125 μM. 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:	2-Channel Duplex Audio (1-Ch Duplex Stereo Audio)
Audio input/output Level:	+4dBu nominal
Audio Type:	Unbalanced, Line Level
Audio in/output impedance:	600Ω
Frequency Response :	20Hz ~ 20KHz
Sample Rate :	48KHz, 24K bit rate
Signal-to-Noise Ratio(SNR):	> 82 dB
Distortion:	<0.05%

• Connectors

Audio:	RCA Connector
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