

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

System Design

Video

Fiber Optic Audio Transmitter & Receiver
20100074 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 20100074 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 (TBD).

Data

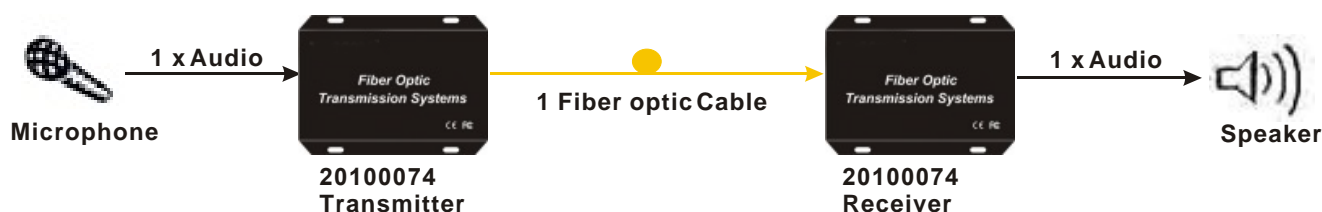
Single-Mode or Multi-Mode, 20100074 can support FC /PC or ST/PC Optical connector, can be used in Daisy-Chain system (Need to customize). The Transmission distance range according to the Optical Budget. Manufacturer's standard is: Single-mode 20km or Multi-mode 2km.

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				
Same 1310nm transmitter+receiver is used for both MultiMode and SingleMode		Multi-Mode	1310nm	16dB	2km
		Single-Mode	1310nm	12dB	20km
TBD	TBD	Single-Mode	1310nm	18dB	40km
TBD	TBD	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 	<ul style="list-style-type: none"> • Connectors
Number of Channels: 1-Channel Simplex Audio Audio input/output Level: 6 dBm Audio in/output impedance: 600 Ω 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"> • Electrical & Mechanical
	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"> • Environmental
	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