

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

System Design

Video

Fiber Optic Audio Transmitter & Receiver 20100075 provides for the 24-Bit digitally transmission of 2-Channel Simplex Analog Audio. Ideal for Broadcast /Studio, CCTV audio and Professional AV applications.



Stand-alone or rack-mount. All units of 20100075 come in an insert card version. The cards can be inserted into our our 14-slot, 19inch 4U or 6U rack-mountable cardcage (TBD).



Single-Mode or Multi-Mode, 20100075 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



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Analog Audio over Fiber

Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power	Maximum Transmission
Transmitter	Receiver	Tibel Mode	wavelengths	Budget	Distance
Same unit 201000+) 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 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	
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Number of Channels: 2-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

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@2A

Power Adapter: AC 100V~240V

Power Consumption: < 3W

 $\begin{tabular}{lll} Stand-Alone Dimensions: & 142mm \times 107mm \times 25mm \\ Card for 4U Rack Dimensions: & 145mm \times 170mm \times 20mm \\ \end{tabular}$

Shipping Weight: 1.8kg (include TX & RX)

Environmental

Operating Temperature: -45° C $\sim +75^{\circ}$ C Storage Temperature: -45° C $\sim +85^{\circ}$ C

Relative Humidity: 0%~95% (non-condensing)

MTBF: >100,000 hours

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