

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

## System Design

Video

Fiber Optic Audio Transmitter & Receiver 20100076 provides for the 24-Bit digitally transmission of 4-Channel Simplex Analog Audio. Ideal for Broadcast /Studio, CCTV audio and Professional AV applications.



Stand-alone or rack-mount. All units of 20100076 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, 20100076 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.



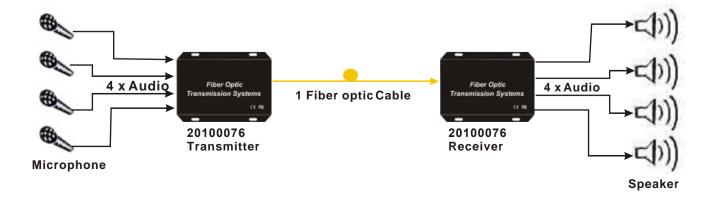


#### Ethernet

### 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<br>Power | Maximum<br>Transmission |
|-----------------------|---|-------------|-------------|------------------|-------------------------|
| Transmitter           | Receiver                                      | Tibel Wode  | waverengths | Budget           | Distance                |
|                       | transmitter+receiver is<br>ode and SingleMode | Multi-Mode  | 1310nm      | 16dB             | 2km                     |
| used for both MultiMo |   | 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 |  |
|-------|--|
| Addio |  |

Number of Channels: 4-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:  $-45^{\circ}$  C $\sim +75^{\circ}$  C Storage Temperature:  $-45^{\circ}$  C $\sim +85^{\circ}$  C

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

MTBF: >100,000 hours

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