

Fiber Optic Video & Audio Transmission 1-Channel Video + 1 Duplex Analog Audio over Fiber

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Video

System Design

Fiber Optic Video & Audio Transmitter & Receiver ZW-1100FDT/R provides for the digital transmission of 1-Channel Composite Video and 1-Channel duplex analog audio over fiber. Ideal for Broadcast/Studio, CCTV audio and Professional AV applications.

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Audio

Stand-alone or rack-mount. All units of ZW-1100FDT/R come in an insert card version. The cards can be inserted into our 14-slot, 19inch 4u or 6U rack-mountable card cage (ZW-CH04 or ZW-CH06).



Data

Single-Mode or Multi-Mode, ZW-1100FDT/R 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.

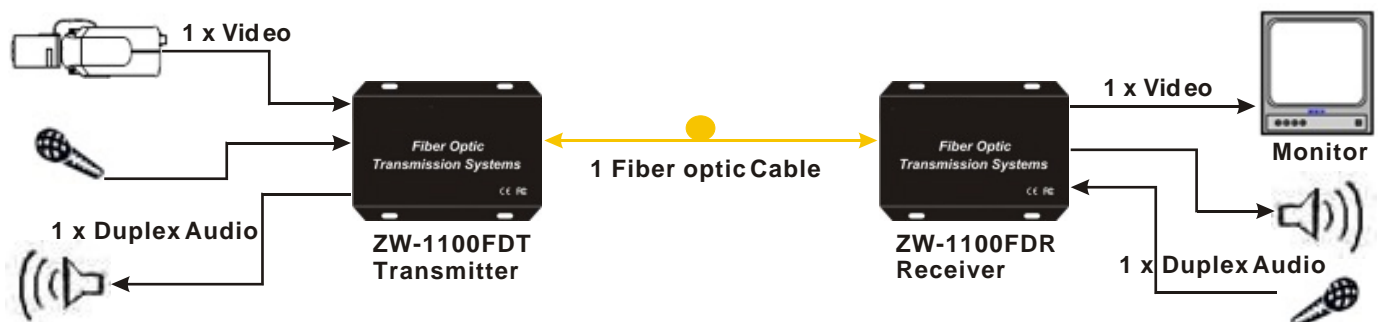


Ethernet

Features

- Support Point-to-Point or Daisy-Chain connection
- Uncompressed Digital Composite Video over one fiber
- 24-Bit Digitally Encoded Audio over one Fiber
- Compatible with all PAL, NTSC, SECAM Video Systems
- 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



Video & Audio over Fiber

Ordering Information

| Model Number | | Fiber Mode | Wavelengths | Optical Power Budget | Maximum Transmission Distance |
|---------------|---------------|-------------|---------------|----------------------|-------------------------------|
| Transmitter | Receiver | | | | |
| ZW-1100FDMT | ZW-1100FDMR | Multi-Mode | 1310nm/1550nm | 16dB | 2km |
| ZW-1100FDST | ZW-1100FDSR | Single-Mode | 1310nm/1550nm | 12dB | 20km |
| ZW-1100FDST-4 | ZW-1100FDSR-4 | Single-Mode | 1310nm/1550nm | 18dB | 40km |
| ZW-1100FDST-6 | ZW-1100FDSR-6 | Single-Mode | 1310nm/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"> • Video | <ul style="list-style-type: none"> • Connectors |
| <ul style="list-style-type: none"> Number of Channels: 1-Channel Video Input/output impedance: BNC 75Ω Input/output Compatibility: PAL, NTSC, SECAM Input/output voltage: 1.0 Volt p-p Bandwidth: 6.5MHZ Bit Resolution: 8-Bit Digital Transmission Differential Gain: < 1.5% Differential Phase: < 1.5° Tilt: < 5% Signal-to-Noise Ratio(SNR): > 67 dB | <ul style="list-style-type: none"> Video: 75Ω BNC (Gold Center Pin) 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"> • Audio | <ul style="list-style-type: none"> • Electrical & Mechanical |
| <ul style="list-style-type: none"> Number of Channels: 1-Channel Duplex Audio Audio input/output Level: 6 dBm Audio in/output impedance: 600Ω Unbalanced Bandwidth: 20Hz ~ 20KHz Bit Resolution: 24-Bit Signal-to-Noise Ratio(SNR): > 80 dB | <ul style="list-style-type: none"> Input Power Requirements: DC 5V@2A Power Adapter: AC 100V~240V Power Consumption: < 3W Stand-Alone Dimensions: 142mm \times 107mm \times 25mm Card for 4U Rack Dimensions: 145mm \times 170mm \times 20mm Shipping Weight: 1.8kg (include TX & RX) |
| | <ul style="list-style-type: none"> • Environmental |
| | <ul style="list-style-type: none"> Operating Temperature: -45° C ~ +75° C Storage Temperature: -45° C ~ +85° C Relative Humidity: 0% ~ 95% (non-condensing) MTBF: > 100,000 hours |