

1 two way video+1 two way audio

Digital Video Optic Fiber Multiplexer

General information



EB-DV series digital video fiber multiplexer (Fiber mux for short) is complete digital high-speed fiber transmission product. It support point to point application

Standalone type

This product is made up of fiber transmitter and fiber receiver and can transmit 1 channels broadcasting 1 two way video+1 two way audio

Terminology

Transceiver: directly connected to video signal source (generally as camera) and transmit video signal to remote fiber mux. It is usually put at front end in the system. It always in the form of standalone type

Receiver: aims to receive video signal sending from remote fiber transceiver and transmit the signal to video display or video processing equipment (generally as monitor or matrix). It is usually put at the central place of system. It always in the form of standalone type or card type

One way: identical as transmitting direction of video signal, usually transmit from front end to central end, that means transmit Video signal from receiver to transmitter.

Back way: opposite to transmitting direction of video signal, usually transmit from central

end to front end, that Video signals transmit

Two way: that means transmit Video signal from receiver to transmitter and also from receiver to transmitter

Features:

- ✧ ASIC design SMT craftwork
- ✧ Complete digital fiber transmission platform and flexible configuration of different signal
- ✧ Independent intellectual property large-scale special-purpose integrated circuit core
- ✧ Transmit on one fiber
- ✧ PAL/NTSC/SECAM auto-negotiation, broadcasting transmission quality
- ✧ Rate of asynchronous data can reach more than 128Kbps

Technical Specification

Video

Video connector:	BNC
Format:	PAL/NTSC/SECAM
Video Signal:	1VP-P
Video Impedance:	75Ω
Bandwidth:	8MHz
Frequency:	13.5MHz
Digitization:	8bit
DG:	1% (Typical value)
DP:	10 (Typical value)
SNR:	67dB (Typical value)

Color brightness time extension difference: 10ns (Typical value)
Color brightness gain difference: $\pm 10\%$ (Typical value)

Audio

Bandwidth: 20Hz~20KHz
Frequency: 48KHz
Digitization: 16bit (24bit for option)
Input impedance (Line-in): 47K Ω /unbalance
Output impedance (Line-out): 10K Ω unbalance
Input/Output Voltage: 2Vp-p
Unbalance SNR: 75dB (Typical value)
Total wave distortion: 0.1% (Typical value)
Audio connector: RJ45

Optic fiber

Fiber connector: FC/ST
Receiving and dispatching module: $> -9\text{dBm}$
Optical receiver receiving sensitivity < -36 (BER < 10):
Dynamic range receiving: $> -30\text{dB}$
Transmitting range: single-mode 20 Km, SM40km, SM60KM, SM8KM or Multi-mode 2KM
optical wavelength: 1310/1550nm,

Application fields

- ◆ Intelligent transportation system (ITS) ;
- ◆ Highway video monitoring and control system;
- ◆ Toll monitoring and control system;
- ◆ Close circuit TV industry monitoring and control;
- ◆ TV program switching channel transmission;
- ◆ High-fidelity video conference system;
- ◆ Security monitoring and control system.
- ◆ Interconnection of monitor centers

Environment condition

Operating temperature: 0C~+55 C

Storage temperature: -20 C~+70 C

Relative temperature:95% (uncondensed)

Dimension

210(L)×136(W)×22(H)mm

Power supply

working voltage range wide, good
anti-disturb and Isolation, work stable

option I – AC220V,range AC165V~AC265V

Ordering information

EB-DV11000DST/R AC220V

Application

