

Doteck

Doteck DMB Series

SDI Digital Video and Audio fiber optic Transmission System



Features

- (1) Compliant with the standards of SMPTE259M, SMPTE297M, SMPTE310M, SMPTE305M (SDTI), SMPTE344M
- (2) Compliant with the standard of DVB-ASI(EN50083-9)
- (3) Auto adaption to the speed of SDI 143M,177M,270M,360M,540Mbps
- (4) With automatic cable equalization function, compensation for cable transmission loss
- (5) Convenient instructions of LED status, data rate, optical signal, power etc
- (6) PCB boards made with environmentally friendly Pb-free
- (7) PCB boards made with multilayer design, to ensure stable and

reliable signal transmission

(8) All components, including connectors, are ordered from public-known manufacturers in the world, high stability and reliability ensurance

(9) Enclosure box material is made of aluminum, elegant appearance, light weight

(10) Dual switching power supply design, wide voltage range, reliable long-term running

(11) A variety of installation options: 15-slot rack, particularly suitable for large volume optical transmission platform construction, and also available for 4-slot rack, 2-slot rack and single-slot rack, fixed 1RU 19-inch enclosure box

Applications

(1) Multimedia Studio

(2) Broadcast video / audio equipment Link

(3) Video Conference

(4) Media Retrieval and Distribution

Introduction

Dotek DMB series SDI digital video and audio fiber optic transmission system can transmit one SD-SDI(143M/177M/270M/360M/540Mbps) standard definition digital video over one single mode fiber or multimode fiber.

Due to the advanced digital fiber optic transmission technology, you need not make any adjustments, simple to set up and easy to operate.

Dotek DMB series SDI digital video and audio fiber optic transmission system, and one SDI loop-through for local monitoring. The receiver outputs 2-way parallel SDI digital video.

Dotek DMB series transmitter equipped with auto-cable equalization circuit, and cable driver circuit available at receiver.

Dotek DMB series, both at the transmitter and receiver, signal jitter elimination circuit available, to ensure high quality signal transmission over long distance fiber cable.

Technical Specification

SDI Digital Video Input	
Number of Channel	1
Input Signal Standard	4:2:2 SMPTE259M(270Mbps)
Signal Level	>380mVp-p
Auto-Cable Equalization	>250m(270Mbps)(BELDEN8281 Cable)
Input Return Loss	>16dB(270Mbps)
Impedance	75 Ω
Connector	BNC
SDI Digital Video loop Output	
Loop-through Number of Port	1
Loop-through Signal Standard	4:2:2 SMPTE259M(270Mbps)
Loop-through Level	800mVp-p \pm 10%
Max Jitter	< 0.2UI(270Mbps)
Rise/Fall Time	< 0.8nS
Impedance	75 Ω
Connector	BNC
Analog Audio Input	
Number of channel	2
Signal Resolution	20bits
Frequency response	20Hz-20KHz@-0.5dB
Operating mode	Balanced or unbalanced
Max input level	17.4Vp-p(+18dBm)
SDI Digital Video Output	
Channel Capacity	2
Output Signal Standard	4:2:2 SMPTE259M(270Mbps)
Signal Level	800mVp-p \pm 10%
Rise/Fall time	<0.8ns
Max Jitter	<0.2UI(270Mps)@10Hz
Impedance	75 Ω
Connector	BNC
Analog Audio Output	
Number of Channel	2
Signal Resolution	20 bits
Frequency response	20Hz-20KHz@-0.5dB

Operating mode	Balanced or unbalanced
Max output level	17.4Vp-p(+18dBm)
SNR(weighted)	>90dB
THD	<0.2%
Physical	
Dimension	44 ×433 ×340 (mm)
Power Supply	95 - 260VAC, 50-60Hz
Power Consumption	<20W
Operating Temperature	0 to +70 °C
Humidity	0 to 95% RH, non-condensing
LED Status Indicator	Power, Optical Link, Video and Audio Activity
Optical	
Fiber Type	Single mode
Number of fiber	1
Wavelength	1310nm / 1550nm
Distance	0-40km, or 0-80km , or 0-100km optional
Connector	FC/PC, or SC/PC

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