

Doteck

Doteck DMB Series

One SDI Digital Video and 2 or 4 analog audio fiber optic Transmission System



Features

- (1)HD-SDI/SDI/ASI signal auto recognition, need not select by hand
- (2)Compliant with the standards of SMPTE292M, SMPTE259M, SMPTE297M, SMPTE310M, SMPTE305M (SDTI), SMPTE344M

- (3) Compliant with the standard of DVB-ASI(EN50083-9)
- (4) Auto adaption to the speed of HD-SDI 143/177/270/360/540/1483.5/1485Mbps or DVB-ASI
- (5) With automatic cable equalization function, compensation for cable transmission loss
- (6) Up to 2 or 4 analog audio channels
- (7) Convenient instructions of LED status, data rate, optical signal, power etc.
- (8) PCB boards made with environmentally friendly Pb-free
- (9) PCB boards made with multilayer design, to ensure stable and reliable signal transmission
- (10) All components, including connectors, are ordered from public-known manufacturers in the world, high stability and reliability ensurance
- (11) Enclosure box material is made of aluminum, elegant appearance, light weight
- (12) Dual switching power supply design, wide voltage range, reliable long-term running
- (13) 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.

Introduction

Dotek DMB series digital video and analog audio fiber optic transmission system can transmit one HD-SDI(1483.5M/1485Mbps) high definition digital video or one SD-SDI(143M/177M/270M/360M/540Mbps) standard definition digital video and up to 2 or 4 analog audio 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, easy to operate.

Dotek DMB series transmitter provides one HD-SDI and 2 or 4 analog audio input, and one HD-SDI loop-through for local monitoring. The receiver outputs 2-way parallel HD-SDI digital video and 2 or 4

analog audio .

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

Transmitter

Analog Audio Input	
Input Number of Channels	2 or 4
Max Input Level	17.4VP-P (+18dBm) or need
Frequency Width	20Hz—20 KHz
Impedance	600Ω
Connector	XLR
SDI Digital Video Input	
Number of Channel	1
Input Signal Standard	4:2:2 SMPTE259M(270Mbps)
Input Level	>380mVp-p
Input Return Loss	>16db(270MHZ)
Input Auto Cable Equilibria	>250m(270Mbps)(BELDEN8281 cable)
Impedance	75Ω
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±10%
Max Jitter	< 0.2UI(270Mbps)
Rise/Fall Time	<0.8ns
Impedance	75Ω
Connector	BNC
Physical	
Dimension	44(H)×433(W)×340(D) (mm)
Power Supply	95 - 260VAC, 50-60Hz
Power Consumption	<20W
Temperature	0 to +70 Degree
Humidity	0 to 95% RH Non-condensing
LED Status Indicator	Power, Optical Link, Video and Audio Activity

Receiver

Analog Audio Output	
Number of Channel	2 or 4
Operating Mode	Balance/Unbalance
Max output Level	17.4Vp-p@+18dBm
Frequency response	20HZ-20KHZ@-0.5dB
THD	<0.2%
Impedance	Low
Connector	XLR
SDI Digital Video Output	
Number of Output Port	2
Output Signal Standard	4:2:2 SMPTE259M(270Mbps)
Output Level	800mVp-p±10%
Max Jitter	<0.2UI(270Mbps)
Rise/Fall Time	<0.8ns
Impedance	75Ω
Connector	BNC
Physical	
Dimension	44(H)×433(W)×340(D) (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 or multimode
Number of fiber	1
Wavelength	1310nm/1550nm
Distance	Up to 100km
Connector	FC or SC

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Doteck Digital Technologies

Room 11C, 11B, 11D, Building 2, International Incubation Zone, No. 2,
Shangdi Info Road, Haidian District, BEIJING, CHINA, Postcode: 100085

Tel: +86-10-62120151

FAX: +86-10-82893162

E-mail: Doteck@126.com

Welcome to visit our website for more info: www.doteck.com