Doteck

Doteck SD2 Series

2 SDI/ASI Digital Video fiber optic Transmission System

Features

(1) SDI/ASI signal auto recognition, not need to select by hand

(2) Compliant with the standards of SMPTE259M, SMPTE297M, SMPTE310M, SMPTE305M (SDTI), SMPTE344M

(3) Compliant with the standard of DVB-ASI(EN50083-9)

(4) Auto adaption to the speed of SDI 143M,177M,270M,360M,540Mbps, or DVB-ASI

(5) With automatic cable equalization function, compensation for cable transmission loss

(6) Convenient instructions of LED status, data rate, optical signal, power etc.

(7) PCB boards made with environmentally friendly Pb-free

(8) PCB boards made with multilayer design, to ensure stable and reliable signal transmission

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

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

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

Introduction

Doteck SD2 series digital video fiber optic transmission system can transmit 2 SD-SDI(143M/177M/270M/360M/540Mbps) standard definition digital video through one single mode fiber or multimode fiber with the standards of SMPTE259M, SMPTE297M, SMPTE310M, SMPTE305M (SDTI), or transmit 2 digital video signal with the standard of DVB-ASI stream.

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

Doteck SD2 series transmitter provides 2 SDI/ASI input, and 2 loop-through for local monitoring. The receiver outputs 4-way parallel SDI/ASI digital video.

Doteck SD2 series transmitter equipped with auto-cable equalization circuit, and cable driver circuit available at receiver.

Doteck SD2 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/ASI Input	
Signal Standard	SMPTE259M,SMPTE297M,SMPTE310, SMPTE305(SDTI), DVB-ASI(EN50083-9)
Number of Input	2 plus 2 loop-through
Resolution	10 Bit
Signal Level	>380mVp-p

Auto-Cable Equalization	>250m(270Mbps)(BELDEN8281 Cable)
Return Loss	>16dB(270Mbps)
Impedance	75Ω
Connector	BNC
SDI/ASI Output	
Number of Output	4
Signal Level	800mVp-p±10%
Rise/Fall time	<0.65ns
SDI Jitter	<0.2UI(740ps)@10Hz <0.2UI(740ps)@1kHz
Impedance	75Ω
Connector	BNC
Physical	
Dimension(HxWxD, mm) 19-inch 1RU	44×433×340(mm)
Power Supply	130 - 260VAC，50-60Hz
Power Consumption	<10W
Temperature	0 to +70 Degree
Humidity	0 to 95% RH Non-condensing
LED Status Indicator	Power, Optical Link, Video Activity
Optical	
Fiber Type	Single mode
Number of fiber	1
Wavelength	1310nm/1550nm
Distance	0 to 40km, or 0-80km, or 0-100km optional
Connector	FC/PC，or SC/PC

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