Doteck

Doteck HD2 Series

2 HD-SDI Digital Videos 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 HDSDI/SDI 143/177/270/360/540/1483.5/1485Mbps, or DVB-ASI

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

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

(7) PCB boards made with environment 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, and light weight

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

Introduction

Doteck HD2 series digital video fiber optic transmission system can transmit 2 HD-SDI(1483.5M/1485Mbps)high definition digital video, or 2 SD-SDI(143M/177M/270M/360M/540Mbps)standard definition digital video or 2 DVB-ASI stream through one single mode fiber or multimode fiber with the standards of SMPTE292M,SMPTE259M, SMPTE297M, SMPTE310M, SMPTE305M (SDTI).

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

Doteck HD2 series transmitter provides 2 HD-SDI input, and 2 loop-through for local monitoring. The receiver outputs 4-way parallel HD-SDI digital video.

Doteck HD2 series transmitter equipped with auto-cable equalization circuit, and cable driver circuit available at receiver.

Doteck HD2 series, both at the transmitter and receiver, signal jitter elimination circuit available, to ensure high quality signal transmission over long distance fiber cable.

Doteck HD2 series uses 3.3V power supply system, low power consumption.

Technical Specification

HD-SDI Input	
Number of Input	2 plus 2 loop-through
Signal Level	>380mVp-p

Auto-Cable Equalization	>250m(270Mbps)(BELDEN8281 Cable) >100m(1485Mbps)(BELDEN8281 cable)
Input Return Loss	>15dB（1485Mbps）
Impedance	75Ω
Connector	BNC
HD-SDI Output	
Channel Capacity	2
Signal Level	800mVp-p±10%
Rise/Fall time	<0.8ns
HD-SDI Jitter	<0.2UI(134ps)@100kHz <1.0UI(673ps)@10Hz
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
Temperature	0 to +50 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
Distance	0-40Km, 0-80Km, 0-100Km optional
Connector	FC/PC，or SC/PC

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