Doteck

Doteck HD Series

HD-SDI Digital Video fiber optic Transmission System

Features

(1) Pathological test passed with UK HD video test and measurement manufacturer PHABRIX

(2) HD-SDI/SDI/ASI signal auto recognition, not need select by hand

(3) Compliant with the standards of SMPTE292M, SMPTE259M, SMPTE297M, SMPTE310M, SMPTE305M

(4) Compliant with the standard of DVB-ASI

(5) Auto adaption to the speed of HD/SD-SDI 143M, 177M, 270M, 360M, 540M, 1483.5M, 1485Mbps, or DVB-ASI

(6) When signal input, with automatic cable equalization function, and when signal output, with driver function

(7) With re-clocking function at transmitter and receiver

(8) Perfect LED indicators design, very convenient to monitor transmitter and receiver work well or not

(9) PCB boards made with environment friendly Pb-free

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

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

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

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

(14) A variety of installation options: 18-slot rack(3RU), 8-slot rack(2RU), particularly suitable for large volume optical transmission platform construction, and also available for 4-slot rack(1RU), 2-slot rack(1RU) and single-slot mini rack, fixed 19-inch 1RU box, mini small box

Introduction

Doteck HD series digital video fiber optic transmission system can transmit one 1485Mbps HD-SDI high definition digital video, or one 270Mbps SDI standard definition digital video or one DVB-ASI stream through one single mode fiber or multimode fiber with the standards of SMPTE292M, SMPTE259M, SMPTE297M, SMPTE305M, SMPTE310M.

Doteck HD series transmitter provides one HD/SD-SDI input, and one loop-through for local monitoring. The receiver output 2-channel parallel HD/SD-SDI digital video.

Doteck HD series transmitter and receiver all have re-clocker chips to regenerate the signal.

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

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

Doteck HD series uses 5V power supply system, low power consumption.

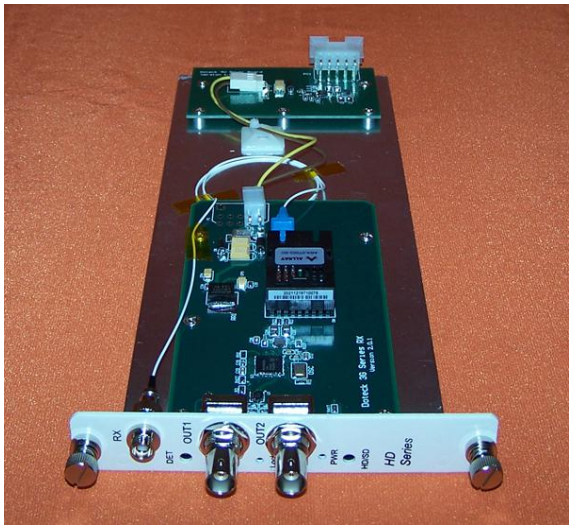
Technical Specifications

HD-SDI input	
Signal standard	SMPTE292M, SMPTE259M, SMPTE297M, SMPTE305M, SMPTE310M, DVB-ASI
Channel	1 plus 1 loop-through
Signal level	>380mVp-p
Auto-cable equalization	>200m@1485Mbps, (Belden 1694A cable) >350m@270Mbps, (Belden 1694A cable)
Input return loss	>10dB@1485Mbps
Impedance	75Ω
Connector	BNC
HD-SDI output	
Channel	2
Signal level	800mVp-p±10%
HD-SDI Rise/Fall time	<270ps@1485Mbps
SDI Rise/Fall time	<0.6ns@270Mbps
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(H×W×D, mm)	44×433×346(mm)
Dual power supply	130-260VAC, 50/60Hz
Power consumption	<10W
Operation temperature	0-50℃
Relative humidity	0-95%, non-condensing
LED status indicator	Power, optical link, video activity
Fiber optic link	
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

More setup options:

18-slot,19-inch 3RU,dual power supply



Fiber optic module

8-slot, 19-inch, dual power supply

4-slot, 19-inch, dual power supply

2-slot, 19-inch, dual power supply

One slot, built-in power supply

Mini Box, external power supply

Fixed 19-inch 1RU standard cabinet with dual power supply

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