Doteck

Doteck HDX1 Series

HD-SDI+IP HD 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) Support electrical signals from the gigabit ethernet

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

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

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

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

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

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

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

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

Introduction

Doteck HDX1 series HD-SDI+IP HD Video 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 or one DVB-ASI stream, and one 10/100/1000Mbps ethernet network over one single mode fiber or multimode fiber with the standards of SMPTE259M, SMPTE297M, SMPTE310M, SMPTE305M (SDTI), IEEE802.3 or transmit one digital video signal with the standard of DVB-ASI stream.

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

Doteck HDX1 series transmitter provides one HD-SDI and one IP input, and one loop-through for local monitoring. The receiver output 2-channel parallel HD-SDI digital video and one IP.

Doteck HDX1 series transmitter equipped with auto-cable equalization circuit, and cable driver circuit available at receiver.

Doteck HDX1 series, both at the transmitter and receiver, signal jitter elimination circuit available, to ensure high quality signal transmission over long distance fiber cable.

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%
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
Ethernet network	
Standard	IEEE802.3z/AB 1000Base_T/SX/LX/ZX
Data rate	10/100/1000Mbps
Auto negotiation	Support
Work mode	Full-duplex or half-duplex
Auto-cross	Support
Connector	RJ45
LED indicators	Data rate, fiber optic
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 optional
Connector	FC/PC, or SC/PC

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