

# Doteck

## Doteck HD4 Series

### 4-channel HD-SDI Digital Video 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.
- (3) Auto adaption to the speed of 143M, 177M, 270M, 360M, 540M, 1483.5M, 1485Mbps
- (4) When signal input, with automatic cable equalization function, and when signal output, with driver function
- (5) Perfect LED indicators design, very convenient to monitor transmitter and receiver work well or not
- (6) PCB boards made with environment friendly Pb-free
- (7) PCB boards made with multilayer design, to ensure stable and reliable signal transmission
- (8) All components, including connectors, are ordered from

public-known manufacturers in the world, high stability and reliability insurance

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

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

(11) A variety of installation options: 16-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 HD4 series digital video fiber optic transmission system can transmit 4 HD-SDI(1483.5M/1485Mbps)high definition digital video, or 4 SD-SDI(143M/177M/270M/360M/540Mbps)standard definition digital video or 4 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.

Dotek HD4 series transmitter provides 4 HD-SDI input, and 4 loop-through for local monitoring. The receiver outputs 8-way parallel HD-SDI digital video.

Dotek HD4 series transmitter equipped with auto-cable equalization circuit, and cable driver circuit available at receiver.

Dotek HD4 series, both at the transmitter and receiver, signal jitter

elimination circuit available, to ensure high quality signal transmission over long distance fiber cable.

Dotek HD4 series uses 3.3V power supply system, low power consumption.

### Technical Specification

<b>HD-SDI Input</b>	
Number of Input	4 plus 4 loop-through
Signal Level	>380mVp-p
Auto-Cable Equalization	>200m@270Mbps, Belden 8281 cable) >100m@1485Mbps, Belden 8281 cable)
Input Return Loss	>15dB@1485Mbps
Impedance	75Ω
Connector	BNC
<b>HD-SDI Output</b>	
Channel Capacity	8
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
<b>Physical</b>	
Dimension(HxWxD, mm)	44×433×340 (mm)
Dual 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
<b>Fiber optic Link</b>	
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

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