

Doteck

Doteck 4K series

6G-SDI Digital Video fiber optic Transmission System



Features

- (1) 6G-SDI/3G-SDI/HD-SDI/SDI/ASI signal auto recognition, need not select by hand
- (2) Compliant with the standards of 6G UHD-SDI SMPTE424M, SMPTE292M, SMPTE259M, SMPTE297M, SMPTE310M, SMPTE305M
- (3) Compliant with the standard of DVB-ASI
- (4) Auto adaption to the speed of 143M, 177M, 270M, 360M, 540M, 1483.5M, 1485M, 2970M, 5940Mbps or DVB-ASI
- (5) When signal input, with automatic cable equalization function, and when signal output, with driver function
- (6) With re-clocking function at transmitter and receiver
- (7) Perfect LED indicators design, very convenient to monitor transmitter and receiver work well or not.
- (8) PCB boards made with environment friendly Pb-free
- (9) PCB boards made with multilayer design, to ensure stable and reliable signal transmission
- (10) All components, including connectors, are ordered from public-known manufacturers in the world, high stability and reliability ensurance
- (11) Enclosure box material is made of aluminum, elegant appearance, and light weight
- (12) Dual switching power supply design, wide voltage range, reliable long-term running
- (13) A variety of installation options: 15-slot rack(2RU), 16-slot rack(3RU), particularly suitable for large volume optical transmission platform construction, and also available for 4-slot rack(1RU), 2-slot(1RU) rack and single-slot mini rack, fixed 19-inch 1RU box, mini small box

Introduction

Dotek 4K series digital video fiber optic transmission system can transmit one 5940Mbps 6G-SDI ultra high definition digital video, one 2970Mbps 3G-SDI super high definition digital video, or 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 6G UHD-SDI SMPTE424M, SMPTE292M, SMPTE259M, SMPTE297M, SMPTE305M, SMPTE310M.

Due to the advanced digital fiber optic transmission and SDI 6Gbps technology , almost you need not make any adjustments, simple to set up, easy to operate, so very suitable application in TV station, digital TV, IPTV, mobile TV, mobile phone TV and other new media fields.

Dotek 6G series transmitter provides one 6G/3G/HD/SD-SDI input, and one loop-through for local monitoring. The receiver outputs 2-way parallel 6G/3G/HD/SD-SDI digital video.

Dotek 6G series transmitter equipped with auto-cable equalization circuit, and cable driver circuit available at receiver.

Dotek 6G 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

Video Input	
Number of Input	1 plus 1 loop-through
Signal Level	>380mVp-p
Auto-Cable Equalization	>50m@5940Mbps, Belden 1694A cable >100m@2970Mbps, Belden 1694A cable >200m@1.485Gbps, Belden 1694A cable >350m@270Mbps, Belden 1694A Cable
Input Return Loss	>10dB@5940Mbps
Impedance	75Ω
Connector	BNC
Video Output	
Channel Capacity	2
Signal Level	800mVp-p±10%
6G-SDI Rise/Fall time	<66ps@5940Mbps
3G-SDI Rise/Fall time	<135ps@2970Mbps
HD-SDI Rise/Fall time	<270ps@1485Mbps

SDI Rise/Fall time	<0.6ns@270Mbps
6G-SDI Jitter	<0.5UI
3G-SDI Jitter	<0.3UI
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
Mini Box	22.5×72×119
Dual Power Supply	130 - 260VAC, 50-60Hz
Temperature	0 to +70 Degree
Humidity	0 to 95% RH Non-condensing
LED Status Indicator	Power, Optical Link, Video Activity
Fiber optic Link	
Fiber Type	Single mode
Number of fiber	1
Wavelength	1310nm or 1550nm
Distance	0 to 40km, or 0-80km, or 0-100km optional
Connector	FC/PC, or SC/PC

More setup options:





15 slot, 19-inch 2.2RU, 2PS



16 slot, 19-inch 3RU, 2PS



18 slot, 19-inch 3RU, 2PS



4 slot, 19-inch 1RU, 2PS



2 slot, 19-inch 1RU, 2PS



1 slot, Built-in power supply





Small Box

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Doteck Digital Technologies

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