

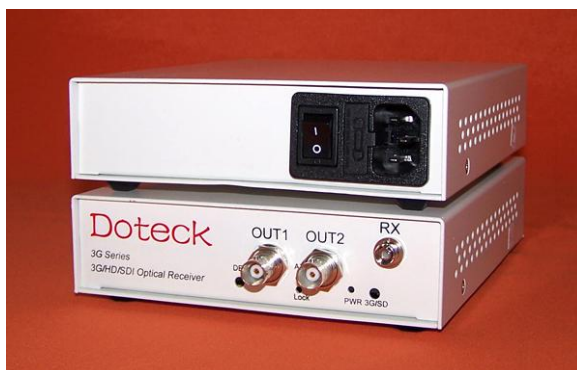
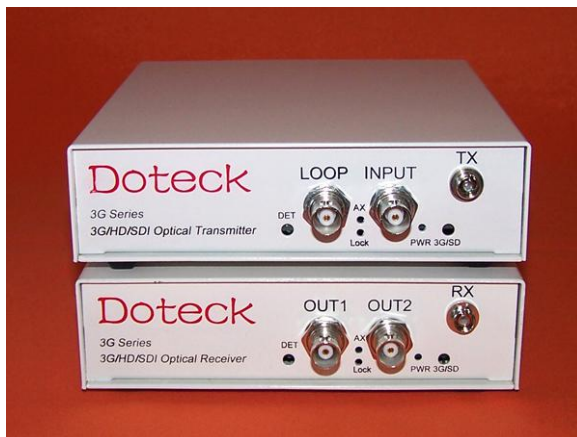
Doteck

Doteck 3G Series

3G-SDI Digital Video fiber optic Transmission System



19-inch 1RU, dual power supply



Small Box

Features

- (1) Pathological test passed with UK HD video test and measurement manufacturer PHABRIX.
- (2) 3G-SDI/HD-SDI/SDI/ASI signal auto recognition, not need select by hand
- (3) Compliant with the standards of SMPTE424M, SMPTE292M, SMPTE259M, SMPTE297M, SMPTE310M, SMPTE305M
- (4) Compliant with the standard of DVB-ASI
- (5) Auto adaption to the speed of HDSDI/SDI 143M,177M,270M,360M,540M,1483.5M,1485M,2970Mbps,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: 18/8/4/2/1-slot rack chassis, particularly suitable for large volume optical transmission platform construction, fixed 19-inch 1RU box, small box and mini box.

Introduction

Dotek 3G series digital video fiber optic transmission system can transmit 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 SMPTE424M, SMPTE292M, SMPTE259M, SMPTE297M, SMPTE305M, SMPTE310M.

Due to the advanced digital fiber optic transmission and SDI 3Gbps 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 3G series transmitter provides one 3G/HD/SD-SDI input, and one loop-through for local monitoring. The receiver outputs 2-way parallel 3G/HD/SD-SDI digital video.

Dotek 3G series transmitter and receiver all have re-clocker chips to regenerate the signal.

Dotek 3G series transmitter equipped with auto-cable equalization circuit, and cable driver circuit available at receiver.

Dotek 3G series, both at the transmitter and receiver, signal jitter elimination circuit available, to ensure high quality signal transmission over long distance fiber cable.

Dotek 3G series uses 3.3V power supply system, low power consumption.

Technical Specification

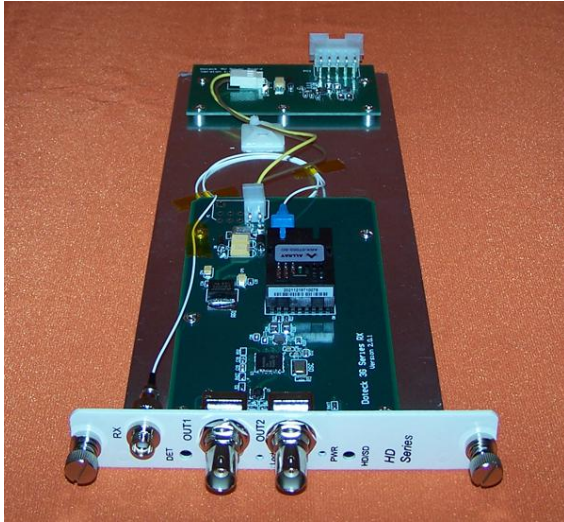
3G-SDI Input	
Signal Standard	SMPTE424M,SMPTE292M,SMPTE259M,SMPTE 297M,SMPTE305M,SMPTE310M,DVB-ASI
Number of Input	1 plus 1 loop-through
Data Rate	19.4Mbps to 2.97Gbps
Resolution	10 Bit
Signal Level	>380mVp-p
Auto-Cable Equalization	>100m@2970Mbps, Belden 1694A cable) >200m@1.485Gbps, Belden 1694A cable)

	>350m@270Mbps, Belden 1694A Cable)
Input Return Loss	>10dB@2970Mbps
Impedance	75Ω
Connector	BNC
3G-SDI Output	
Channel Capacity	2
Signal Level	800mVp-p±10%
3G-SDI Rise/Fall time	<135ps@2970Mbps
HD-SDI Rise/Fall time	<270ps@1485Mbps
SDI Rise/Fall time	<0.6ns@270Mbps
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
Small Box	44x146x169
Mini Box	22.5x72x119
Dual Power Supply	130 - 260VAC, 50-60Hz
Power Consumption	<10W
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 / 1550nm
Distance	0 to 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

Doteck

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