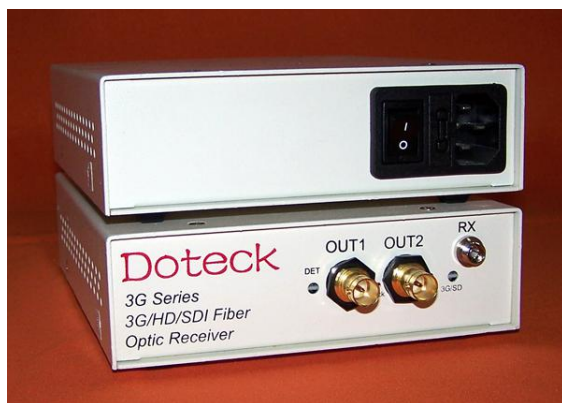
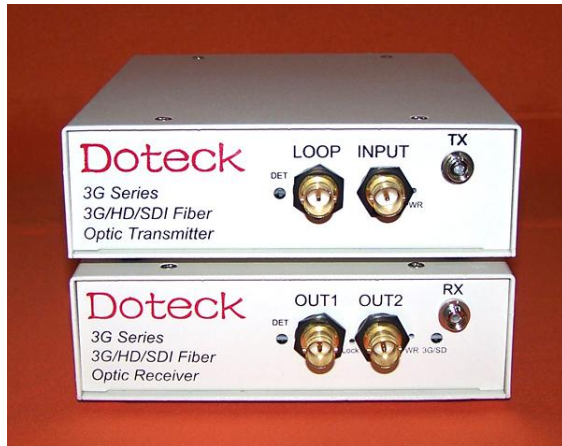


Doteck

Doteck 3G Mini Series

3G-SDI Digital Video fiber optic Transmission System



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 3G/HD/SD-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) Single 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

Dotek 3G Mini series digital video fiber optic transmission system can transmit one 2970Mbps 3G-SDI 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.

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

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

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

Dotek 3G Mini 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 Mini series uses 5V power supply system, low power consumption.

Technical Specifications

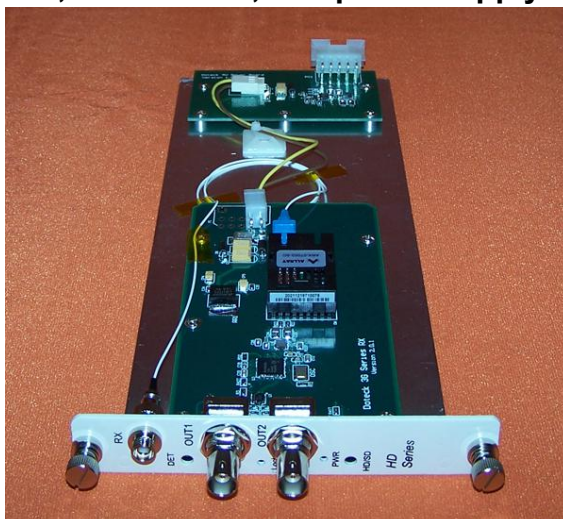
| 3G-SDI input | |
|-------------------------|---|
| Signal standard | SMPTE424M, SMPTE292M, SMPTE259M, SMPTE297M, SMPTE305M, SMPTE310M, DVB-ASI |
| Channel | 1 plus 1 loop-through |
| Signal level | >380mVp-p |
| Auto-cable equalization | >100m@2970Mbps, (Belden 1694A cable) >200m@1485Mbps, (Belden 1694A cable) >350m@270Mbps, (Belden 1694A cable) |
| Input return loss | >10dB@2970Mbps |
| Impedance | 75 Ω |
| Connector | BNC |
| 3G-SDI output | |
| Channel | 2 |
| Signal level | 800mVp-p \pm 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(101ps)@100KHz |
| HD-SDI Jitter | <0.2UI(134ps)@100KHz <1.0UI(673ps)@10Hz |
| SDI Jitter | <0.2UI(740ps)@10Hz <0.2UI(740ps)@1KHz |
| Impedance | 75 Ω |
| Connector | BNC |
| Physical | |
| Dimension(H×W×D, mm) | 44x146x169(mm) |
| Power supply | 130-260VAC, 50/60Hz |

| | |
|-------------------------|--|
| Power consumption | <10W |
| Operation temperature | 0-50°C |
| 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

Doteck

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