

Doteck

Doteck C7 Series

Analog Video to 3G/HD/SDI Converter



Features

- (1) Convert analog video to 3G/HD/SD-SDI video
- (2) Functions with analog audio embedder
- (3) Compliant with the standards of SMPTE424M, SMPTE292M, SMPTE259M, SMPTE297M, SMPTE305M, SMPTE310M
- (4) Auto adaption to the speed of SDI 143M, 177M, 270M, 360M, 540M, 1483.5M, 1485M, 2970Mbps
- (5) When signal output, with driver function
- (6) When signal output, with re-clocking function
- (7) Perfect LED indicators design, very convenient to monitor device 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 conversion
- (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) Switching power supply design, wide voltage range, reliable long-term running

(13) Mini box design, small and exquisite, convenient to setup and operate

(14) Can manually adjust the resolution

Introduction

Dotek C7 series analog video to HD video converter can convert analog video to 3G/HD-SDI HD digital video or SD-SDI SD digital video and is with analog audio embedder function.

Dotek C7 series analog video to HD video converter has high supreme signal precision, stability, reliability, which is a ideal digital video converter for TV station, CMMB, IPTV, mobile TV, mobile phone TV, telecommunication operators, government video conference system and other new media field.

Technical Specifications

Analog video input	
Standard	PAL, NTSC, 525/625 lines
Channel	1
Input level	0.6-1.6Vp-p
Color delay	<10ns
Differential gain	<1.0%
Differential phase	<0.7 degree
SNR(Weighted)	>70dB
Impedance	75 Ω
Connector	BNC
Analog audio input	
Channel	2
Frequency response	20Hz-20KHz@-0.5dB
Max input level	17.4Vp-p(+18dBm)
Isolation	>90dB@1KHz, >90dB@20KHz

Input impedance	600 Ω
Connector	XLR
3G/HD/SDI video output	
Channel	1
Standard	SMPTE424M, SMPTE292M, SMPTE259M, SMPTE297M, SMPTE305M, SMPTE310M
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
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)	44×158.5×250(mm)
Power supply	130-260VAC, 50/60Hz
Operation temperature	0-50°C
Relative humidity	0-95%, non-condensing
LED status indicator	Power

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