

Doteck

Doteck e1 Series

3G/HD/SDI HD Video Audio Embedder



Features

- (1) 3G-SDI/HD-SDI/SDI signal auto recognition, need not select by hand
- (2) Support 2/4-channel analog audio or 2-channel AES/EBU digital embedded, convenient and flexible
- (3) Compliant with the standards of SMPTE424M, SMPTE292M, SMPTE259M, SMPTE297M, SMPTE305M, SMPTE310M
- (4) Auto adaption to the speed of 3G-SDI/HD-SDI/SDI 143M, 177M, 270M, 360M, 540M, 1483.5M, 1485M, 2970Mbps
- (5) When signal input, with automatic cable equalization function, and when signal output, with driver function
- (6) With re-clocking function when signal input and output

(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) 19-inch 1RU box or mini box design, small and exquisite, convenient to setup and operate

Introduction

Dotek e1 series HD video audio embedder embeds 2/4-channel analog audio or 2-channel AES/EBU digital into 3G/HD/SD-SDI digital video, output 2-channel 3G-SDI, or HD-SDI, or SDI with audio embedded.

Dotek e1 series HD video audio embedder has high supreme signal precision, high supreme stability, high supreme reliability, which is a ideal HD video audio embedder for TV station, CMMB, IPTV, mobile TV, mobile phone TV, telecommunication operators, government video conference system and other new media field.

Technical Specifications

3G/HD/SDI input	
Standard	SMPTE424M, SMPTE292M, SMPTE259M, SMPTE297M, SMPTE305M, SMPTE310M
Channel	1
Signal level	>380mVp-p
Auto-cable equalization	>100m@2970Mbps, (Belden 1694A cable) >200m@1.485Gbps, (Belden 1694A cable) >350m@270Mbps, (Belden 1694A cable)

Return loss	>10dB@2970Mbps
Impedance	75Ω
Connector	BNC
Analog audio input	
Channel	2 or 4
Frequency response	20Hz-20KHz@-0.5dB
Operating mode	Balanced or unbalanced
Max input level	+18dBm
Isolation	>90dB@1KHz >90dB@20KHz
Impedance	600Ω
Connector	XLR
AES/EBU digital audio input	
Channel	2
Signal level	0.2-7.0Vp-p
Sampling frequency	32KHz-108KHz
Impedance	110Ω
Connector	XLR
3G/HD/SDI output	
Channel	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(H×W×D,	

mm)	
2-channel mini box	44×203.4×200(mm)
4-channel mini box	44×165×236(mm)
19-inch 1RU	44×433×346(mm)
Power supply	130 - 260VAC, 50/60Hz
Operation temperature	0-50℃
Relative humidity	0-95%, non-condensing
LED status indicator	Power, video activity

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