

AUDIO VIDEO SYSTEM

3G/HD/SDI HD Video Audio embedder + De-embedder

Lightem Systems L3SDE (L3SDD) series HD video audio embed(de-embed) systems embeds 4 analog audio or 4 AES/EBU digital audio into 3G-SDI digital video, or HD-SDI digital video, or SDI digital video. Input 3G-SDI, or HD-SDI, or SDI, input 4 analog audio or 4 AES/EBU digital audio. Output 3G-SDI, or HD-SDI, or SDI with audio embedded.

Lightem Systems L3SDE series HD video audio embed system is suitable for TV station, CMMB, IPTV, mobile TV, mobile phone TV, telecommunication operators, government video conference system and other new media field.



FEATURES

- 3G-SDI/HD-SDI/SDI signal auto recognition
- 4 analog audio or 4 AES/EBU digital audio embedded (de-embedded), or analog audio and AES/EBU combination
- Compliant with the standards of SMPTE424M, SMPTE292M, SMPTE259M, SMPTE297M, SMPTE305M, SMPTE310M
- Auto adaption to the speed of 3G-SDI/HD-SDI/ SDI 143M, 177M, 270M, 360M, 540M, 1483.5M, 1485M, 2970Mbps automatic cable equalization and driver function
- With signal re-clocking function

APPLICATIONS

- HD Video at TV Stations
- Telecommunication Operators
- Government Video Conference
- New Media Field

SPECIFICATIONS

3G/HD/SDI Input	L3SDE / L3SDD
<i>Standard</i>	SMPTE424M, SMPTE292M, SMPTE259M, SMPTE297M, SMPTE305M, SMPTE310M
<i>Number of Input</i>	1 plus 1
<i>Data Rate</i>	19.4Mbps to 2.97Gbps
<i>Resolution</i>	10 Bit
<i>Signal Level</i>	>380mVp-p
<i>Auto-Cable Equalization</i>	>100m@2970Mbps, Belden 1694A cable) >200m@1.485Gbps, Belden 1694A cable) >350m@270Mbps, Belden 1694A Cable)
<i>Return Loss</i>	>10dB@2970Mbps
<i>Impedance</i>	75Ω
<i>Connector</i>	BNC
<i>Analog Audio Input</i>	
<i>Number of Input</i>	2 or 4
<i>Frequency response</i>	20Hz-20KHz@-0.5dB
<i>Operating mode</i>	Balanced or unbalanced
<i>Max input level</i>	+18dBm
<i>Isolation</i>	>90dB@1kHz >90dB@20kHz
<i>Input impedance</i>	600Ω
<i>Connector</i>	XLR

AUDIO VIDEO SYSTEM

<i>AES/EBU Digital Audio Input</i>	
<i>Number of Input</i>	2
<i>Signal Level</i>	0.2-7.0Vp-p
<i>Sampling Frequency</i>	32KHz-108KHz
<i>Impedance</i>	110Ω
<i>Connector</i>	XLR
<i>3G/HD/SDI Output</i>	
<i>Number of output</i>	2
<i>Signal Level</i>	800mVp-p±10%
<i>3G-SDI Rise/Fall time</i>	<135ps@2970Mbps
<i>HD-SDI Rise/Fall time</i>	<270ps@1485Mbps
<i>SDI Rise/Fall time</i>	<0.6ns@270Mbps
<i>3G-SDI Jitter</i>	<0.3UI
<i>HD-SDI Jitter</i>	<0.2UI(134ps)@100kHz
	<1.0UI(673ps)@10Hz
<i>SDI Jitter</i>	<0.2UI(740ps)@10Hz
	<0.2UI(740ps)@1kHz
<i>Impedance</i>	75Ω
<i>Connector</i>	BNC
<i>Physical</i>	
<i>Dimension(HxWxD,mm): 19-inch 1RU</i>	44×433×340(mm)
<i>Mini Box</i>	44×200×164(mm)
<i>Internal Power Supply</i>	130 - 260VAC, 50-60Hz, 19-inch 1RU Box
<i>External Power Supply</i>	12VDC, Mini Box
<i>Power Consumption</i>	<10W
<i>Temperature</i>	0 to +50 °C
<i>Humidity</i>	0 to 95% RH Non-condensing
<i>LED Indicator</i>	Power, Video, Audio

ORDERING INFORMATION

P/N	Description
L3SDE-a	Lightem Systems L3SDE 3G/HD/SDI HD Video Audio Embed System
L3SDD-a	Lightem Systems L3SDD 3G/HD/SDI HD Video Audio De-embed System
a	S – Standalone housing
	R – 1U 19" Rackmount version