

AUDIO VIDEO SYSTEM

SDI Digital Video or Analog Video/Audio or AES/EBU Digital fiber system

Lightem Systems LDMC series digital video or analog video(CVBS)with embedded /de-embedded digital or analog audio optic transmission system, with one SDI digital video or one analog video(CVBS, YUV or YC) input , embedding 4 analog audio or 2 AES/EBU digital audio,and one SDI digital video and one analog video(CVBS, YUV or YC) can be output , de-embedding 4 analog audio or 2 AES/EBU digital audio.



FEATURES

- CVBS,YC,YUV,SDI can be selected
- Up to 4 analog audio channels or 2 AES/EBU digital audio embedded/de-embedded
- AGC video,input power 0.6V-1.6V
- Up to 100 km
- 1310 nm,1550 nm,CWDM or DWDM optic transmission mode available
- Support NTSC(525/60),or PAL(625/50) standard (auto sense)

SPECIFICATIONS

<i>Analog Audio Output</i>	
<i>Number of Channel</i>	4
<i>Operating Mode</i>	Balance/Unbalance
<i>Max output Level</i>	17.4Vp-p@+18dBm
<i>Frequency response</i>	20HZ-20KHZ@-0.5dB
<i>THD</i>	<0.2%
<i>Impedance</i>	Low
<i>Connector</i>	Terminal Block or XLR
<i>Digital Audio (AES/EBU) Output</i>	
<i>Number of Channel</i>	2
<i>Output Level</i>	5Vp-p
<i>Coding Digit</i>	20bits or 24bits
<i>Sample Frequency</i>	48KHZ
<i>Data Jitter</i>	<±20ns
<i>Impedance</i>	110Ω
<i>Connector</i>	Terminal Block or XLR
<i>SDI Digital Video Output</i>	
<i>Number of Output Port</i>	2
<i>Output Signal Standard</i>	4:2:2 SMPTE259M(270Mbps)
<i>Output Level</i>	800mVp-p±10%
<i>Max Jitter</i>	<0.2UI(270Mbps)
<i>Rise/Fall Time</i>	<0.8ns
<i>Impedance</i>	75Ω
<i>Connector</i>	BNC

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<i>Physical</i>	
<i>Dimension</i>	43(H)×438(W)×230(D) (mm)
<i>Power</i>	95-240VAC @ 0.6A
<i>Operating Temperature</i>	0-+50 °C
<i>Humidity</i>	0-95% RH,non-condensing
<i>Status Indicators</i>	Power,optic link, video, audio, data operating status
<i>Analog Audio Input</i>	
<i>Input Number of Channels</i>	4
<i>Max Input Level</i>	17.4VP-P(+18dBm)
<i>Frequency bandwidth</i>	20Hz—20 KHz
<i>Impedance</i>	600Ω
<i>Connector</i>	XLR
<i>Digital Audio AES/EBU Input</i>	
<i>Input Number of Channels</i>	2
<i>Input Level</i>	0.2 - 7.0Vp-p
<i>Sample Frequency</i>	32KHZ-108KHZ (20/24bit)
<i>Impedance</i>	110Ω
<i>Connector</i>	Terminal Block
<i>Analog Video</i>	
<i>Channel</i>	1
<i>Signal Resolution</i>	10 bits
<i>Video Standard</i>	525/625 Lines
<i>Bandwidth</i>	10MHz
<i>Video Level</i>	0.6-1.6Vp-p
<i>SNR(Weighted)</i>	>70dB
<i>Differential Gain</i>	<1%
<i>Differential Phase</i>	<1 Degree
<i>Impedance</i>	75 Ohm
<i>Connector</i>	BNC
<i>SDI Digital Video Input</i>	
<i>Number of Channel</i>	1
<i>Input Signal Standard</i>	4:2:2 SMPTE259M(270Mbps)
<i>Input Level</i>	>380mVp-p
<i>Input Return Loss</i>	>16db(270MHZ)
<i>Input Auto Cable Equilibrium</i>	>250m(270Mbps)(BELDEN8281 cable)
<i>Impedance</i>	75Ω
<i>Connector</i>	BNC
<i>SDI Digital Video Input (no audio embedded)</i>	
<i>Input Number of Channel</i>	2
<i>Input Signal Standard</i>	4:2:2 SMPTE259M(270Mbps)
<i>Input Level</i>	800mVp-p±10%
<i>Max Jitter</i>	< 0.2UI(270Mbps)
<i>Rise/Fall Time</i>	< 0.8ns
<i>Impedance</i>	75Ω
<i>Connector</i>	BNC

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<i>SDI Digital Video loop Output (audio embedded)</i>	
<i>Loop-through Number of Port</i>	2
<i>Loop-through Signal Standard</i>	4:2:2 SMPTE259M(270Mbps)
<i>Loop-through Level</i>	800mVp-p±10%
<i>Max Jitter</i>	< 0.2UI(270Mbps)
<i>Rise/Fall Time</i>	<0.8ns
<i>Impedance</i>	75Ω
<i>Connector</i>	BNC
<i>Optical Link</i>	
<i>Wavelength</i>	1310nm or 1550nm
<i>Optical Power</i>	-12dBm~3dBm
<i>Transmission Distance</i>	0-100km
<i>Connector</i>	FC/PC
<i>Power</i>	220VAC power<20W
<i>Dimension</i>	43(H)×438(W)×230(D)(mm)
<i>Analog Video</i>	
<i>Output Level</i>	1Vp-p
<i>SNR</i>	>70dB
<i>Differential Gain</i>	<1%
<i>Differential Phase</i>	<1 degree
<i>Brightness non-Linetype</i>	<1%
<i>Bright Delay</i>	<10NS
<i>Bright Gain</i>	<1%
<i>Impedance</i>	75Ω
<i>Connector</i>	BNC
<i>Analog Audio</i>	
<i>Max output Level</i>	17.4Vp-p (+18dBm)
<i>SNR</i>	>85dB (non-weighted)
<i>THD</i>	<0.2%
<i>Frequency Respond</i>	20Hz-20KHz@-0.5dB
<i>Insulation</i>	>90dB@1KHz; >90dB@20KHz
<i>Input/Output Impedance</i>	600/600 Ohm(Balanced)
<i>Connector</i>	XLR

ORDERING INFORMATION

P/N	Description
LDMC-1V-aDA-bAA	Lightem Systems one SDI Digital Video or one Analog Video/ Analog Audio or AES/EBU Digital audio fiber optics Transmission System
a	1- 1Ch AES/EBU Digital audio 2- 2Ch AES/EBU Digital audio
b	1- 2Ch Analog Audio 2- 4Ch Analog Audio