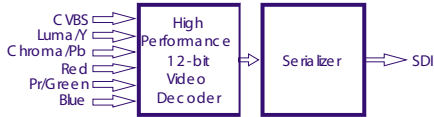


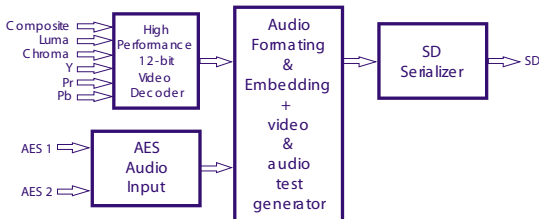
DVDEC-1000x Digital Video Decoder



DVDEC-1000



DVDEC-1000D



Features

- High performance & low cost
- Supports standard definition PAL, NTSC, Y-C or YPrPb inputs
- High performance 12-bit oversampled ADCs
- 5-line, super adaptive, 2D comb filter
- Able to adapt to inaccurately timed, poor or noisy video signals
- Optional two channel AES or four channel analog audio embedder
- LED indicators
- Contact closure alarm
- Compact & rugged design 142mm(L) x 82mm(W) x 47mm(H)

Description

The Digital Video Decoder provides high performance composite or component to SDI conversion. The inputs can either be composite (CVBS), S-Video (Luma & Chroma) or Component outputs (YPrPb). Performance is achieved through 12-bit oversampled noise shaped video ADCs, full 10-bit processing and a 5-line, super adaptive, 2D comb filter.

Specifications

Electrical Inputs

Number of Inputs	6
Signal Level	1V p-p +/- 10mV
Impedance	75 ohm
Connectors	75 ohm BNC female

Electrical Outputs

Number of Outputs	1
Data Rate	270 Mbps (SMPTE-259M)
Return Loss	>15dB (5MHz – 300MHz)
Impedance	75 ohm
Connectors	75 ohm BNC female

Audio Interface

DVDEC-2000A	24-bit Balanced Analogue Audio (24dBu = 0dBFS)
DVDEC-2000D	100ohm Balanced AES audio

Alarm & Control Interface

- Composite (CVBS), S-Video (Luma & Chroma) or RGB or YPrPb
- Loss & Presence LED indicator
- 50Hz or 60Hz LED indicator
- Solid state alarm relay contacts

Supported Standards

SMPTE - 259M (270Mbit/s)

Ordering Information

DVDEC-1000SD Video Decoder	
DVDEC-1000A	SD Video Decoder + 4 channel analogue audio
DVDEC-1000D	SD Video Decoder + 2 channel AES audio

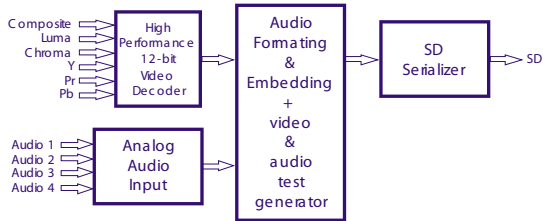
Accessories (extra)

- High performance, 110-240V universal input, 12V @1.5A output
- Power lead, SAA approved, 2M, IEC320-C14 connector

Compatibility

- Compatible with all SBC products supporting digital video interfaces
- Compatible with third party compliant digital video interfaces

DVDEC-1000A



Typical Performance (PAL composite input)

Differential Gain	1.2% pk-pk	
Differential Phase	0.5% pk-pk	
Luminance Non-Linearity	0.9% pk-pk	
K Factor	K-2T = 0.1%	
	K-PB = 0.3%	
Chroma Gain	98.0%	
Chroma Delay	-1.9nS	
Sync Bar Ratio	100.7%	
Line Time Distortion	0.1%	
Bar Tilt		0.1%
Frequency Response	0.5MHz	-0.01dB
	1.0MHz	-0.11dB
	2.0MHz	-0.00dB
	3.0MHz	-0.42dB
	4.0MHz	-0.53dB
	5.8.0MHz	-1.36dB

Noise \approx dB (black, 5MHz low-pass, unified weighted)

Noise \approx dB (full ramp, 5MHz low-pass, unified weighted, tilt null)

Noise \approx dB (full ramp, 5MHz low-pass, unified weighted, tilt null, \approx 200KHz high pass)

(Some measurement are worst case, as the errors caused by the video generator and composite encoder used during testing could not be eliminated)