

SD Decoder

Preliminary Specifications

SBC



Features

- Component (YPrPb or RGB) to SDI Conversion
- Composite (CVBS & S-Video (Y/C)) to SDI Conversion
 - NTSC-M, PAL-B/D/G/H/I/M/N, PAL-60
- 12-bit oversampled noise shaped ADCs and **FULL** 10-bit processing
- Internal Video Timing Generator
- Optional Analog AES or AES Audio sub-board
 - Four 24-bit Analogue audio inputs (two stereo pairs)
 - Two AES inputs (re-sampled to 48KHz synchronous)
 - Channel swapping, phase inversion, muting & amplitude control
 - Internal Audio test tone generator
- Front panel BNC monitoring
- Graphical Front Panel
- Web based monitoring & control

Description

The SD Decoder is a universal component or composite analog video to serial digital video converter. The Decoder utilizes the latest multiformat video converters with 12-bit resolution analog to digital converters and full 10-bit processing to deliver true broadcast quality performance. The module is further enhanced with the addition of the optional high quality audio sub-boards. Module configuration and control is available via the front panel or web based interface. This module will become the clear market leader for features, price and performance.

Specifications

Composite / Component Video Input

Number of Outputs	6
Luminance Non-linearity	0.4% typical
Differential Gain	0.4% typical
Differential Phase	0.4 degrees typical
SNR ramp	63 dB typical (unweighted)
SNR flat field	65 dB typical (unweighted)
Impedance	75 ohm
Connectors	75 ohm BNC female

AES Inputs (optional AES audio sub-board)

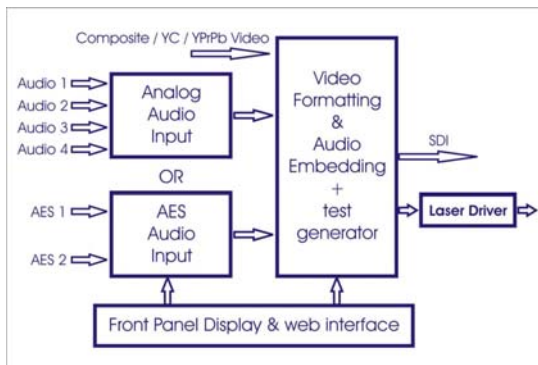
Number of Inputs	2 (two stereo pairs)
Data Rate	8-96Kbps
Standard	AES3
Signal Amplitude	0.2 to 7 Vp-p
Re-sampling	optional 48KHZ (locked to video if present)
Equalization	>200m high quality 110 ohm balanced shielded cable
Impedance	Balance 100 ohm
Connectors	Three pin Phoenix

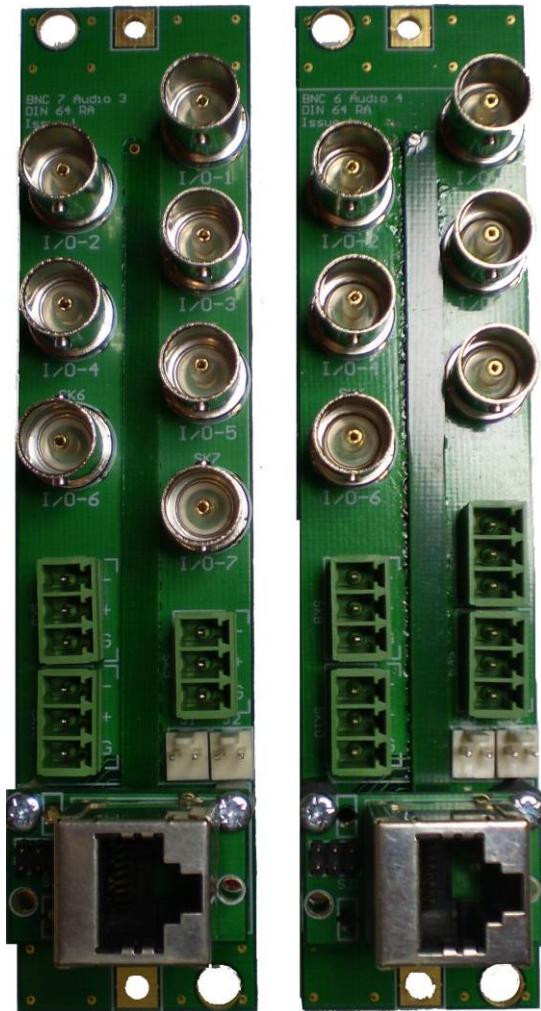
Analog Audio Inputs

Number of Inputs	4 (two stereo pairs)
Resolution	24-bit @ 48KHz
Frequency Response	20Hz- 20KHz +/- 0.1dB
THD+D	> -100dB
Dynamic range	>110dB
Impedance	Hi-Z
Connectors	Three pin Phoenix

Serial Video Output

Number of Outputs	1
Data Rate	270 Mbps
Return Loss	>15dB (5MHz – 1.5GHz)
Impedance	75 ohm
Connectors	75 ohm BNC female





Alarm & Control Interface
Graphical front panel display
Embedded Web server with 10/100 UTP Ethernet
RJ45 UTP on rear assembly
Major & minor alarm relay contacts (rear assembly)

Supported Standards
SMPTE - 259M, SMPTE 272M-C

Compatibility
Compatible with all SBC modules supporting digital video interfaces
Compatible with SBC 3RU, 84HP Eurocard frame
Compatibility with third party frames upon request.