

# HD / SD Audio De-Embedder

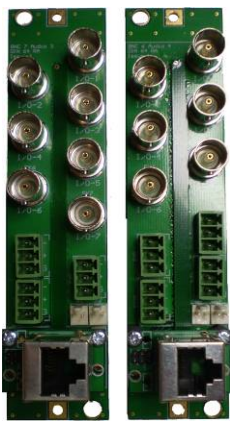


Preliminary Specifications



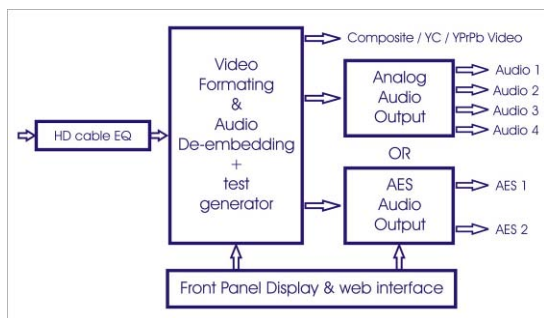
AES Output

Analog Audio Output



AES version    Analog Audio version

Decal not shown,  
unused BNC removed in production units



## Features

- Extraction of embedded audio from HD-SDI (1.485Gbit/s & 1.483Gbit/s) and SDI (270Mbit/s)
- Support for 20-bit & 24-bit audio (48KHz)
- Internal test tone generator
- Optional Analog AES or AES Audio sub-board
  - Four 24-bit Analog audio outputs (two stereo pairs)
  - Two AES outputs with AES reference input
  - 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 HD/SD Audio De-embedder extracts up to one group of audio from a HD/SD digital video stream. The group can be optionally removed from the output digital video stream. The de-embedder can be supplied with either a high performance analog audio or AES sub-board. The analog audio sub-boards contains 4 high performance 24-bit analog to digital audio converters. The AES sub-board contains an AES reference input to allow the embedded AES audio to be synchronized. The graphical front panel display

## Specifications

### Serial Video Input & Output

Data Rate	270 & 1485 Mbps
Return Loss	>15dB (5MHz – 1.5GHz)
Cable Eq.(input)	0 to 100m Belden 1694A (HD) 0 to 250m Belden 8281A (SD)
Impedance	75 ohm
Connectors	75 ohm BNC female

### AES Outputs (AES audio sub-board option)

Number of Outputs	2 (two stereo pairs)
Signal level	4 Vp-p +/- 1 Vp-p
Impedance	110 ohm balanced
Connectors	Three pin Phoenix

### Analog Audio Outputs (analog audio sub-board option)

Number of Outputs	4 (two stereo pairs)
Resolution	24-bit @ 48KHz
Frequency Response	20Hz- 20KHz +/- 0.1dB
THD+D	> -100dB
Dynamic range	>110dB
Reference Level	+24dBu (0dBFS)
Impedance	40ohms
Connectors	Three pin Phoenix

### 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 (270Mbit/s), 292M (1485Mbit/s)
- SMPTE 272M-C

### Compatibility

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