



### Features

- Looping Video Input
- Video Hum Rejection
- Video Cable Equalization and Gain Control
- Video Clamping & DC restoration
- Sophisticated Video Detection Algorithms
- Stereo Balanced Audio Inputs
- Sophisticated Detection Algorithms
- Front panel BNC Video monitor
- Major & Minor contact closure alarms
- Optional Graphical Front Panel
- Optional Web based monitoring & control

### Description

The AVDA-3000 is an analog video distribution amplifier with cable EQ., Hum rejection, DC restoration & Gain control with 9 video outputs and a simple input loss detector. The AVDA-3100 builds upon this functionality by adding an extremely powerful video and audio analyser platform. The video analyser converts the analog video to 10-bit chroma/luma separated video @ 27Mbit/s. The FPGA analyses the resulting digital video to determine video level characteristics such as a low APL alarm and the detection of still or frozen pictures. The resulting and measurements can be viewed via the optional graphical front panel display or via the embedded web server.

### Specifications

#### Composite Video Input

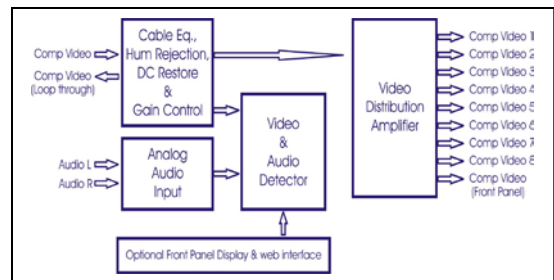
Format	PAL or NTSC
Return Loss	>45dB (up to 6MHz)
Impedance	75 ohm when looping input is terminated
Connectors	BNC female

#### Video Controls

Video Gain	+/- 3dB
Frequency Response	
Cable Equalizer	0 to 300m

#### Detection Controls (AVDA-3100)

Video Failure Delay	0-32 seconds in 1 second steps
Video Present Delay	0-8 seconds in 1 second steps
Video APL	Threshold levels to be determined
Video Still Picture	0-32 seconds in 1 second steps
Audio Silence Delay	0-64 seconds in 4 second steps
Audio Present Delay	0-64 seconds in 4 second steps
Audio Silence Level	Threshold levels to be determined



#### Video Performance

Frequency Response	+/- 1dB (20Hz to 6MHz)
Differential Gain	+/- 0.1dB (20Hz to 6MHz)
Differential Phase	+/- 0.1% (20Hz to 6MHz)
Noise	< 70dB (unweighted)

#### Composite Video Output

Outputs	8 + front panel
Return Loss	>40dB (up to 6MHz)
Impedance	75 ohm
Connectors	BNC female

#### Analogue Audio Inputs (AVDA-3100)

Number of Outputs	2 (stereo pair)
Resolution	24-bit @ 48KHz
Frequency Response	20Hz- 20KHz +/- 0.1dB
THD+D	> -100dB
Dynamic range	>110dB
Reference Level	+24dBu (0dBFS)
Impedance	Hi-Z
Connectors	Three pin Phoenix

#### Alarm & Control Interface

Graphical front panel display (AVDA-3100)  
 Embedded Web server with 10/100 UTP Ethernet (AVDA-3100)  
 RJ45 UTP on rear assembly  
 Major & minor alarm relay contacts (rear assembly)

#### Compatibility

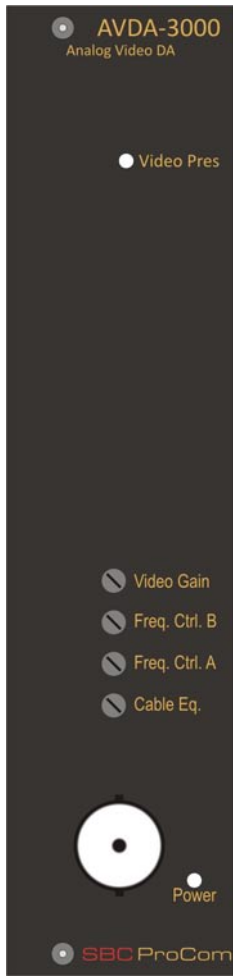
Compatible with SBC 3RU, 84HP Eurocard frame  
 Compatibility with third party frames upon request.

#### Compliances

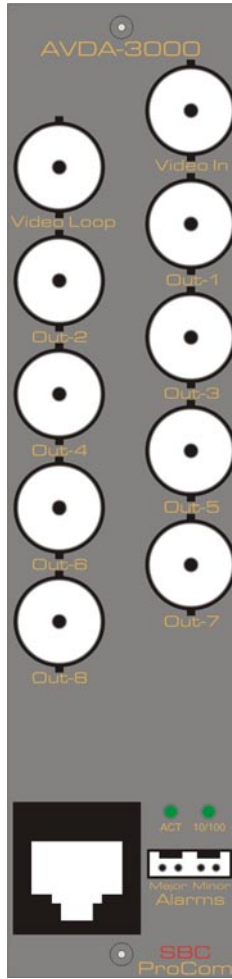
CE; UL; C-Tick  
 RoHS Compliant Directive 2002/95/EC

#### Ordering Information

- AVDA-3000
- AVDA-3100 (OLED display & web server)



Front



Common Rear



Front

Copyright by SBC 2008. Product Specifications are subject to change without prior notice.