

Densité Audio Distribution

The Densité series provides versatile audio distribution amplifiers for both analog and digital workflows, these amplifiers ensure reliable and consistent audio signal distribution across diverse broadcast and production environments.

ADA-1023

Dual (Stereo) Analog Audio DA

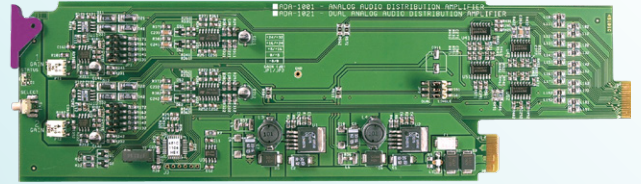
DDA-1113

AES DA (75Ω)

DDA-1133

AES DA (110Ω)

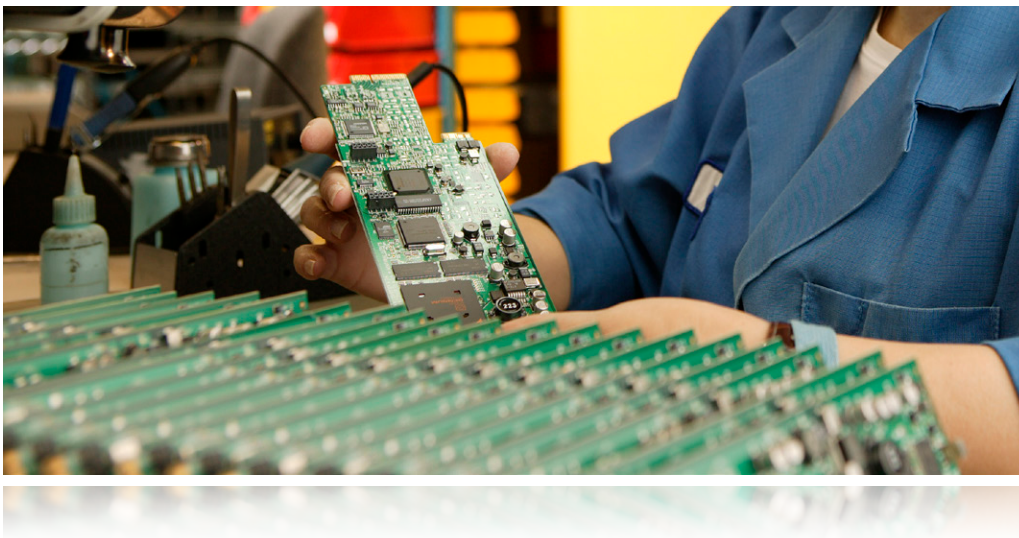
ADA-1023 Dual (Stereo) Analog Audio DA



Space-saving, modular platform for advanced signal processing.

The ADA-1023 from Grass Valley® is an analog audio DA that can be configured for single or dual channel (stereo) operation. In single channel mode, eight outputs can be driven while in dual channel mode, each channel has four outputs. A wide range of level gain control is possible and controlled from the card edge.

A signal status is also available indicating the input signal(s) presence.



Key Features

- Single or dual analog audio input(s)
- Single channel 8-output or dual channel (stereo) 4-output
- Balanced inputs and outputs
- Wide control of gain (-8 to +32 dB)
- Status LED and remote reporting of presence and overload

Specifications

Input

Signal (2): Balanced analog audio

Impedance: >20kΩ

Common mode rejection: >50 dB

Output

Signal (8): Balanced analog audio

Impedance: <50Ω

Processing Performance

Gain range: -8 to +32 dB

Max. level: +24 dBu

SNR: -115 dB (unweighted 20 Hz to 20 kHz)

Distortion: <0.01 % (20 Hz to 20 kHz) at +24 dBu

Crosstalk: < -100 dB (20 kHz) at +24 dBu

Freq. response: ±0.05 dB (20 Hz to 20 kHz)

Overload threshold: +25 dBu

Signal absence: < -36 dBu for 0-255s

Electrical

Power: 7W

Ordering

Densité 2 frame

ADA-1023

ADA-1023-DRP

Densité 3 frame

ADA-1023-3RU

ADA-1023-3SRP

Description

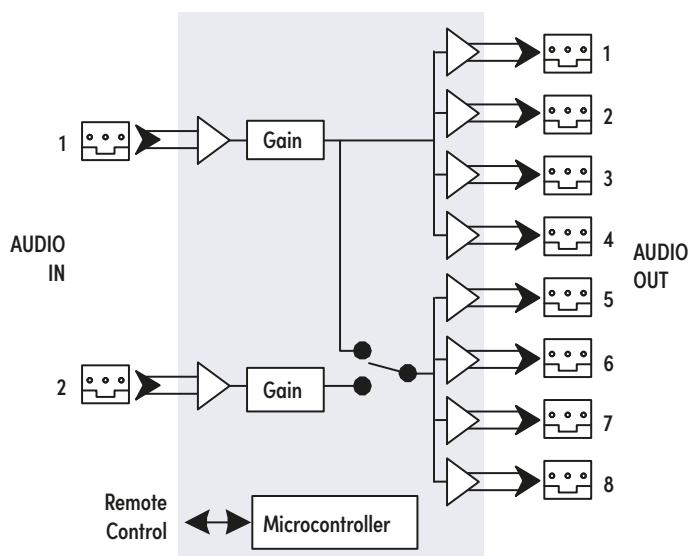
Single/dual analog audio DA

Double rear connector panel

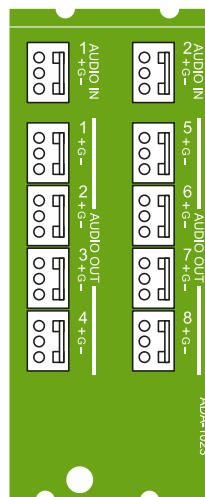
Single rear connector panel

Remote Control

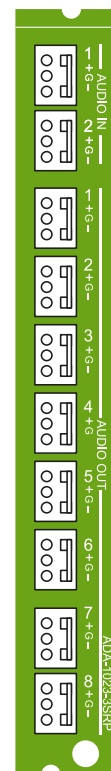
GV Orbit, iControl, iControl Solo



ADA-1023 Functional Block Diagram



ADA-1023-DRP



ADA-1023-3SRP

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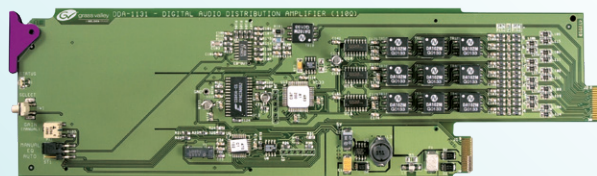
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DDA-1113

AES DA (75Ω)

Space-saving, modular platform for advanced signal processing.

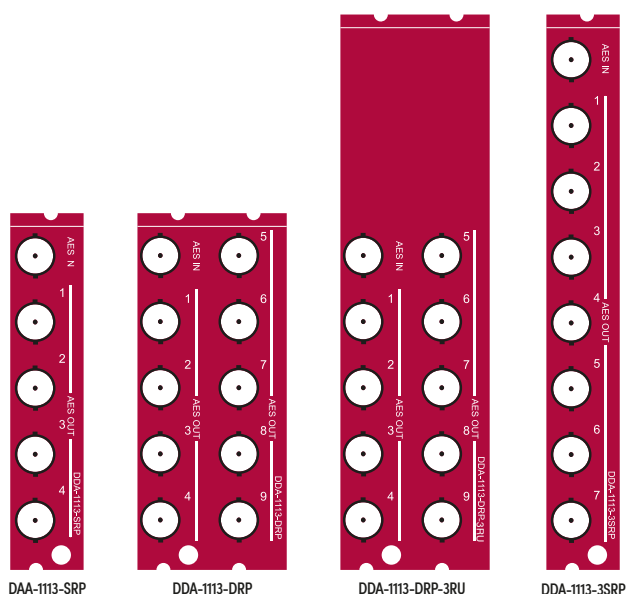


The DDA-1113 from Grass Valley® is a digital audio DA that supports AES-3id 75Ω digital audio standard and provides nine outputs.

The input features clock regeneration for reduced jitter and signal restoration. An audio input signal status is also available indicating the input signal presence and validity with remote reporting.

Key Features

- AES-3id audio unbalanced input
- Nine AES-3id audio outputs
- Remote control of carrier quality
- Signal regeneration
- Silence detect with user adjustable delay and remote reporting
- Status LED and remote reporting



DAA-1113-SRP

DDA-1113-DRP

DDA-1113-DRP-3RU

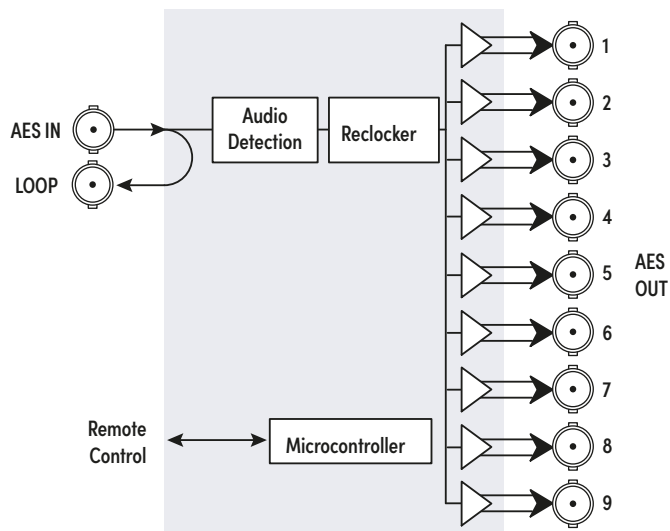
DDA-1113-3SRP

Specifications

Input Signal: AES3-id (SMPTE ST 276) Level: 0.1 to 7.0 Vp-p Impedance: 75Ω unbalanced or Hi-Z, remotely selectable Equalization: 0 to 2,000m (0 to 6,560 ft.) Belden 8281	Output Signal: AES3-id (SMPTE ST 276) Level: 1 Vp-p nominal Impedance: 75Ω unbalanced Rise/fall time: 36/32 ns Jitter: <0.005 UI pp (700 Hz to 100 kHz)	Signal Processing Sampling: 28 to 100 kHz Processing delay: <60.7 μs at 48 kHz (<3 samples) Electrical Power: - Using 4 outputs: <1W - Using 9 outputs: <2W
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Ordering

Densité® 2 frame	Densité 3 frame	Description
DDA-1113	DDA-1113-3RU	Digital audio DA, 75Ω
DDA-1113-SRP		Single rear connector panel with 4 outs
DDA-1113-DRP	DDA-1113-DRP-3RU	Double rear connector panel
	DDA-1113-3SRP	Single rear connector panel with 7 outs
Remote control	GV Orbit®, iControl™, iControl Solo	



DDA-1113 Functional Block Diagram

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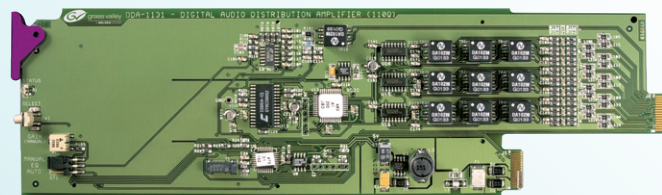
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DDA-1133

AES DA (110Ω)

Space-saving, modular platform for advanced signal processing.



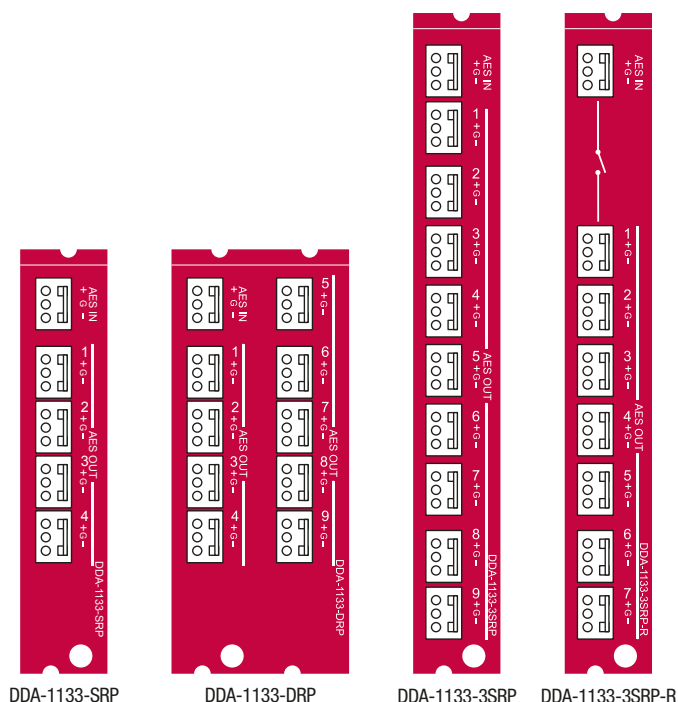
The DDA-1133 from Grass Valley® is a digital audio DA that supports AES3 110Ω digital audio standard, providing nine outputs and a relay input bypass rear panel option.

The input features clock regeneration for reduced jitter and signal restoration.

An audio input signal status is also available indicating the input signal presence and validity with remote reporting.

Key Features

- AES3 balanced audio input
- 9 AES3 balanced audio outputs
- Remote control of carrier quality
- Signal regeneration
- Silence detect with user adjustable delay and remote reporting
- Status LED and remote reporting
- Input bypass relay rear panel option



Specifications

Input

Signal: AES3 (ANSI S4.40)

Level: 0.1 to 7.0 Vp-p

Impedance: 110Ω balanced

Equalization: 0 to 300m (0 to 985 ft.) (DRAKA ref. KFB audio PBG110)

Output

Signal: AES3 (ANSI S4.40)

Level: 4 Vp-p nominal

Impedance: 110Ω balanced

Specific jitter: <0.005 UI p-p (700 Hz to 100 kHz)

Processing Performance

Sampling: 28 to 100 kHz

Processing delay:

- Reclocker ON: <60.7 μs @ 48 kHz (< 3 samples)
- Reclocker OFF: 75 ns typ.

Electrical

Power:

- Using 4 outputs: <1.5W
- Using 7 outputs: <2.0W
- Using 9 outputs: <2.0W

Ordering

Densité® 2 frame

DDA-1133

DDA-1133-SRP

DDA-1133-DRP

Densité 3 frame

DDA-1133-3RU

DDA-1133-3SRP

DDA-1133-3SRP-R

Description

Digital audio DA, 110Ω

Single rear connector panel with 4 outs

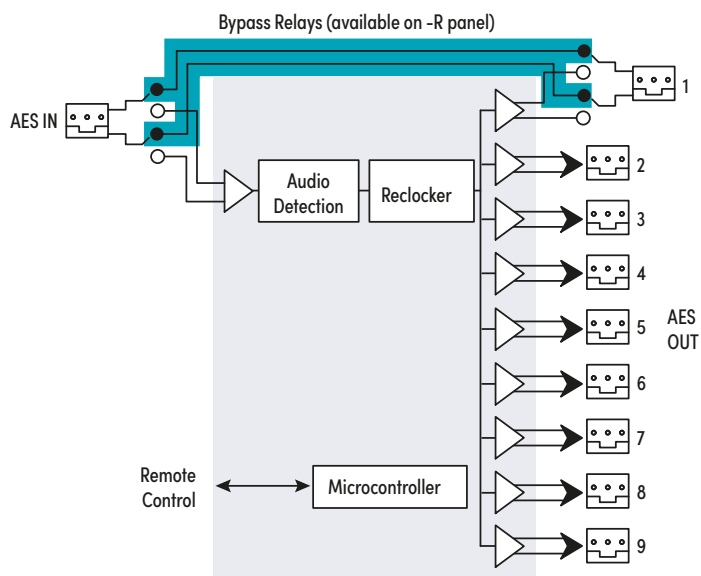
Double rear connector panel

Single rear connector panel with 9 outs

Single rear connector panel with 7 outs and bypass relays between IN and OUT1

Remote control

GV Orbit®, iControl™, iControl Solo



DDA-1133 Functional Block Diagram

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