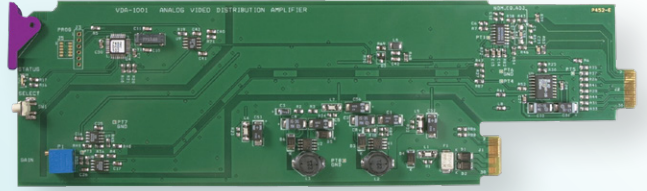


DATASHEET

VDA-1002 Analog Video/ Tri-level Sync Distribution Amplifier



Space-saving, modular platform for advanced signal processing.

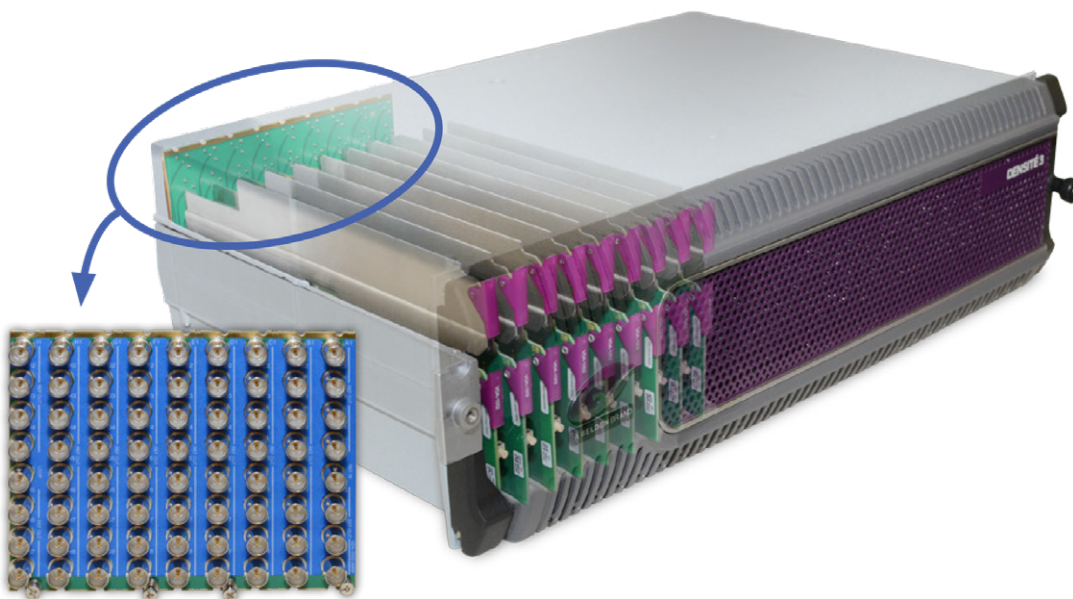
The VDA-1002 from Grass Valley® is an analog video distribution amplifier with a differential looping input and eight outputs.

Signal status is controlled from the card edge. Signal status is provided to indicate the input signal presence.

The differential input provides rejection of hum and other artifacts on incoming signals.

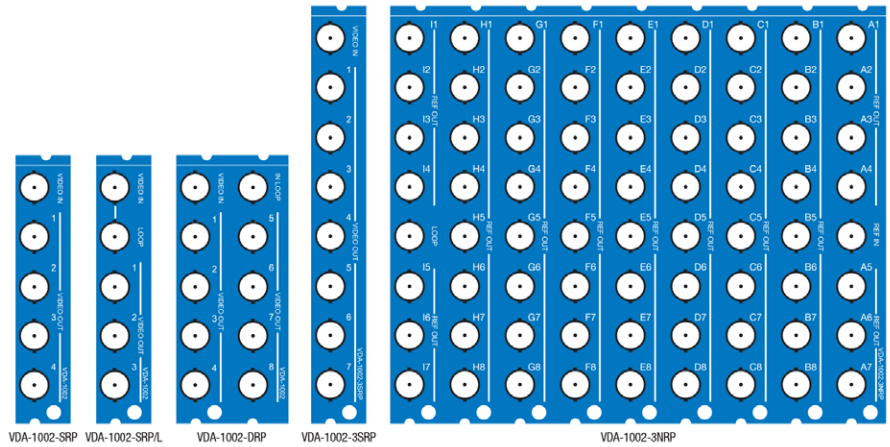
The new nine slot-wide VDA-1002-3NRP combined with nine VDA-1002 cards maximize analog video distribution to 70 BNC outputs with internal looping of input signal.

Two VDA-1002-3NRP rears (with 18 VDA-1002) can be installed in a Densité® 3 frame, giving a total of 140 BNC output per 3 RU for reference distribution.



Key Features

- Analog video differential input with passive loop-through
- 8x 75Ω outputs
- Supports NTSC and PAL video standards
- 90 MHz analog video bandwidth
- Control of gain from the card edge
- Status LED and remote reporting



Specifications

Input

Signal: Any 1 V_{p-p} nominal signal

Return loss:

>35 dB up to 10 MHz on all VDA single and double rear panels

>31 dB up to 5 MHz, with VDA-1002-3NRP rear panel

Coupling:

Level: 0.3 to 1.5 V_{p-p}

Impedance: 75Ω bridging

Max. common mode signal: 28 V_{p-p}

Common mode rejection: >65 dB to 10 kHz

Output

Signal (3-8): 1 V_{p-p} nominal signal adjustable

Return loss: >35 dB up to 5.75 MHz

Impedance: 75Ω

Phase match between outputs: <0.1° at 4.43 MHz

Output isolation signal: >40 dB at 10 MHz

Response variation: <0.1 dB, 1 to 8 loads, to 20 MHz

Processing Performance

Gain range: ±3 dB

Freq. response:

±0.05 dB up to 5 MHz

±0.15 dB up to 10 MHz

Differential gain: <0.15%

Diff. phase:

<0.15° at 8 loads

<0.1° at 2 loads

H/V tilt: <0.1 %, DC coupling

SNR: >70 dB up to 15 MHz (rms noise/0.714 V, unweighted)

Chrominance/luminance delay error: <±1 ns

Chrominance/luminance gain error: <±0.02 dB

Hum: <1 mV

Latency: 15 ns

Electrical

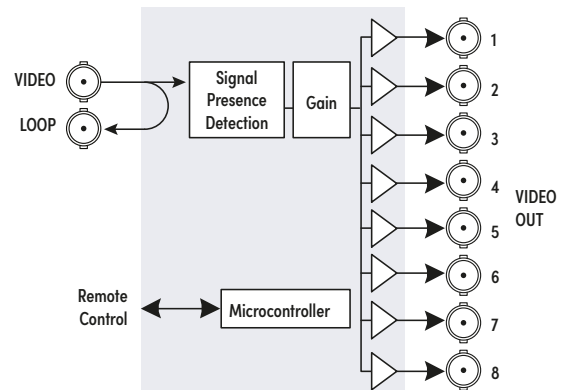
Power:

1.5W (SRP and SRP/L rears)

2W (DRP, 3SRP and 3NRP rears)

Ordering

Densité 2 Frame	Densité 3 Frame	Description
VDA-1002	VDA-1002-3RU	Analog video DA
VDA-1002-SRP		Single rear connector panel with 4 outs
VDA-1002-SRP/L	VDA-1002-SRP/L-3RU	Single rear connector panel
VDA-1002-DRP	VDA-1002-DRP-3RU	Double rear connector panel
	VDA-1002-3SRP	Single rear connector panel with 7 outs
	VDA-1002-3NRP	Nonuple Rear Connector Panel (supports up to 9 VDA-1002-3RU)
Remote Control	GV Orbit®, iControl™, iControl Solo	



VDA-1002 Functional Block Diagram

This product may be protected by one or more patents. For further information, please visit: www.grassvalley.com/patents

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