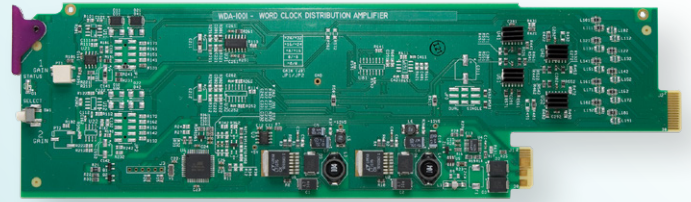


DATASHEET

# WDA-1001 Word Clock Distribution Amplifier



Space-saving, modular platform for advanced signal processing.

The WDA-1001 from Grass Valley® is a Word Clock distribution amplifier that provides eight outputs and supports a wide range of clock frequencies and amplitudes.

It can fan out AC coupled as well as TTL/CMOS types of signals because the amplifier maintains an end-to-end DC transparency.

A passive loop-through input is provided to ease distribution of more than eight Word Clock signals by daisy chaining other WDA-1001 cards.

Alarms can be enabled to monitor input signal presence and/or overload conditions with user programmable thresholds.

## Key Features

- Fans out up to 8 Word Clock signals
- DC Coupled all the way through
- Wide range of amplitudes and frequencies
- Works with both AC-coupled and TTL/CMOS type of signals
- SDIF-2 Word Clock compliant
- Built-in basic input signal probing with programmable thresholds
- Adjustable output levels

## Specifications

### Input

**Signal:** Word Clock, TTL/CMOS, AC-Coupled or SDIF-2

**Connectors (2):** BNC

**Maximum input level:**  $\pm 8$  Vp-p

**Impedance:**  $> 6$  k $\Omega$

### Outputs (8)

**Signal:** Word Clock, DC coupled with input

**Connectors:** BNC

**Impedance:** 75 $\Omega$

**Output load:**  $\geq 75\Omega$

### Maximum Output Levels

**TTL input signal:**

+7 Vp-p with 1 k $\Omega$  load

+3.5 Vp-p with 75 $\Omega$  load

AC-coupled

**Input signal:**

13 Vp-p with 1 k $\Omega$  load

6 Vp-p with 75 $\Omega$  load

### Processing

DC Coupled, non-reclocking and non-resaping distribution amplifier

**Bandwidth:** 32 to 96 kHz

**Gain with:**

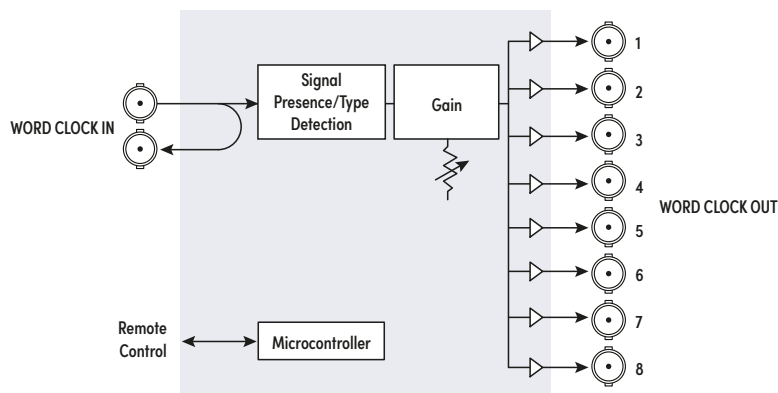
$> 1$  k $\Omega$  load: -3 to +12 dB

75 $\Omega$  load: -9 to +3 dB

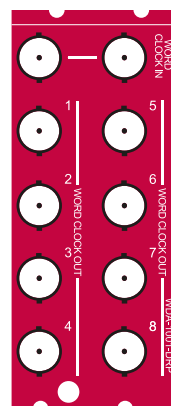
**Propagation delay:**  $< 50$  ns

### Electrical

**Power:** 8W



WDA-1001 Functional Block Diagram



WDA-1001-DRP

## Ordering

Densité® 2 Frame	Densité 3 Frame	Description
WDA-1001	WDA-1001-3RU	Word Clock distribution amplifier
WDA-1001-DRP	WDA-1001-DRP-3RU	Double rear connector panel
<b>Remote Control</b>	GV Orbit®, iControl™, iControl Solo, RCP-200	

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

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