

## openGear Products

**openGear** is an open-architecture rack system developed by Ross Video, a leader in video technologies, to provide a standard rack-based platform on which companies can develop card-based audio & video products. The adoption of openGear based cards by Sonifex allows customers to choose Sonifex cards as part of an overall terminal equipment solution. The openGear frames offer the flexibility of independent rear modules for connectivity to a wide array of interfaces and control via TCP/IP connectivity using a free application called Dashboard.

### There are four products in the Sonifex openGear range:

- **OG-DDA8B** 8 Output Balanced Digital Audio Distribution Amplifier, 2 Inputs
- **OG-DDA8U** 8 Output Unbalanced Digital Audio Distribution Amplifier, 2 Inputs
- **OG-DDA8BS** 8 Output Balanced Digital Audio Distribution Amplifier, 2 inputs & Sample Rate Conversion
- **OG-DDA8US** 8 Output Unbalanced Digital Audio Distribution Amplifier, 2 inputs & Sample Rate Conversion

# OG-Frame2U openGear Rack Frame & OG-PSU2U openGear Rack Power Supply

The standard **openGear** rack frame is 2U high and is delivered with a single power supply and processor card with network port. Adding another power supply allows for dual-redundant operation.

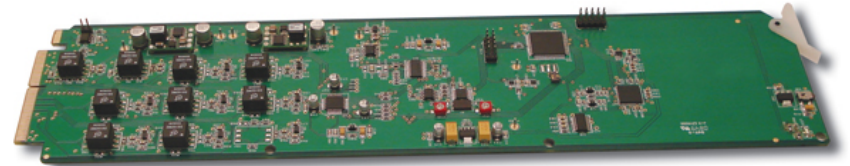
- 2U rack frame includes one power supply.
- Accepts 12 openGear cards.
- Network port fitted as standard.
- Front panel cooling fans.
- Hinged front panel for easy access.



# OG-DDA8B openGear 8 Output Balanced Digital Audio Distribution Amplifier, 2 Inputs

The **OG-DDA8B** digital distribution amplifier is used for distributing balanced digital audio, repeating both the audio data and the status information of the input whilst re-normalising to standard digital audio levels.

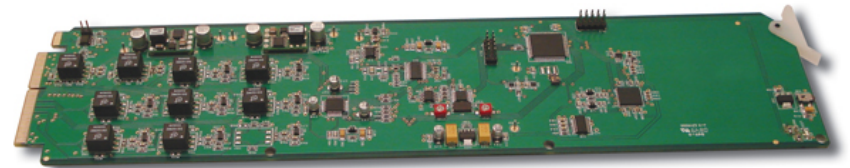
- 2 selectable balanced digital audio inputs one of which is distributed to 8 balanced digital audio .
- Can accept input sample rates in the range of 30kHz - 192kHz, and bit rates of 16, 20 and 24 bit. So, it can be used for standard CD signal distribution at 16 bit 44.1kHz, as well as for high quality 24 bit 192kHz recording.



# OG-DDA8U openGear 8 Output Unbalanced Digital Audio Distribution Amplifier, 2 Inputs

The **OG-DDA8U** digital distribution amplifier is used for distributing unbalanced digital audio, repeating both the audio data and the status information of the input whilst re-normalising to standard digital audio levels.

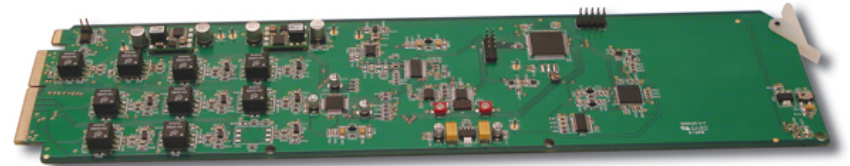
- 2 selectable unbalanced digital audio inputs one of which is distributed to 8 unbalanced digital audio .
- It can accept input sample rates in the range of 30kHz - 192kHz, and bit rates of 16, 20 and 24 bit. So, it can be used for standard CD signal distribution at 16 bit 44.1kHz, as well as for high quality 24 bit 192kHz recording.



# OG-DDA8BS openGear 8 Output Balanced Digital Audio Distribution Amplifier, 2 Inputs & Sample Rate Conversion

The **OG-DDA8BS** digital distribution amplifier with sample rate converter is used to convert a digital audio input to a different sample rate and distribute it.

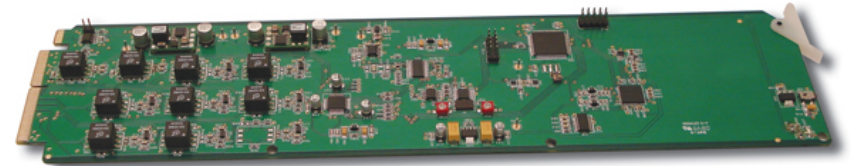
- 2 selectable balanced digital audio inputs (or input and 1 external sync input) which is distributed to 8 balanced digital audio outputs.
- All rates from 32kHz to 192kHz are supported by the SRC and output circuitry. The unit has an option for the sample rate converter to fall back to the master clock frequency when the sync signal is not present.



# OG-DDA8US openGear 8 Output Unbalanced Digital Audio Distribution Amplifier, 2 inputs & Sample Rate Conversion

The **OG-DDA8SUS** digital distribution amplifier with sample rate converter is used to convert a digital audio input to a different sample rate and distribute it.

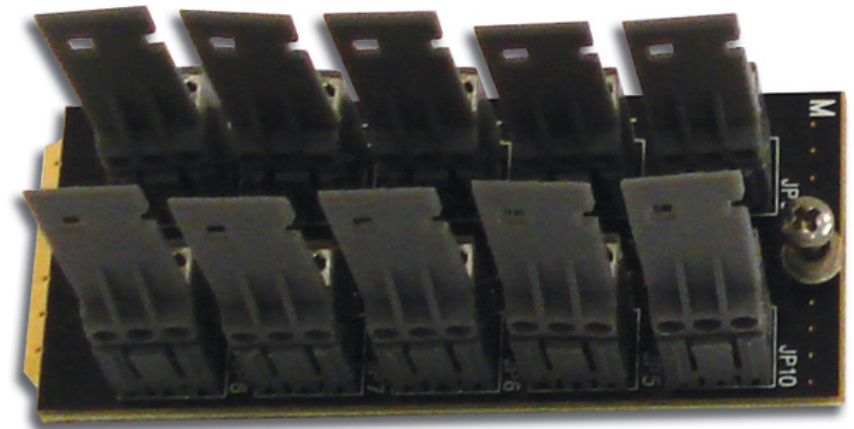
- 2 selectable unbalanced digital audio inputs (or input and 1 external sync input), distributed to 8 unbalanced digital audio outputs.
- The output rate can follow the input (i.e. no sample rate conversion or can be derived from an internal master clock, an external digital audio sync input or from 1 of two rack connected reference signals.



## OG-R1-10A openGear single rear module using balanced WECO 3 pin I/O

The **OG-R1-10A** balanced connector board has 10 x Weco style connectors and is used with the OG-DDA8B and OG-DDA8BS audio distribution amplifiers.

- Input Impedance:  $110\Omega \pm 20\%$  balanced.
- Output Impedance:  $110\Omega \pm 20\%$  balanced.
- Signal Level: 3V/10V peak to peak min/max.



## OG-R1-10B, openGear single rear module using unbalanced BNC I/O

The **OG-R1-10B** has 10 BNC connectors and is used with the OG-DDA8U and OG-DDA8US digital distribution amplifiers.

- Input Impedance:  $75\Omega \pm 5\%$  unbalanced.
- Output Impedance:  $75\Omega \pm 5\%$  unbalanced.
- Signal Level: Balanced min  $0.5V \pm 20\%$  peak to peak (OG-DDA8U).

