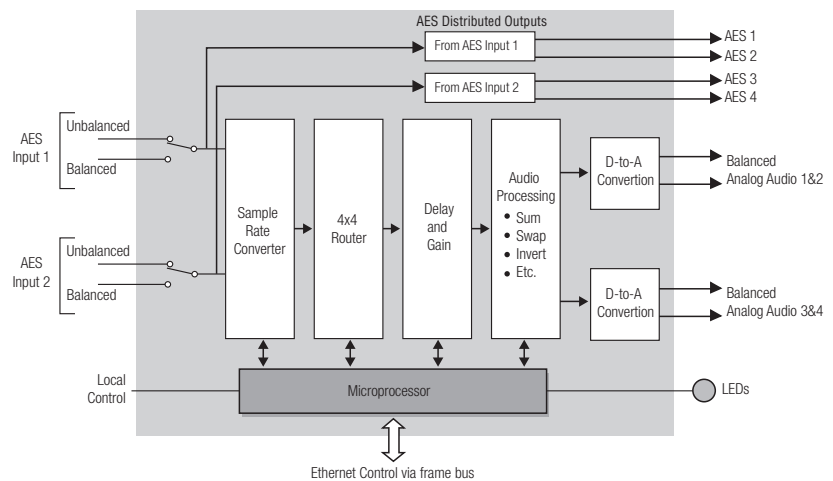
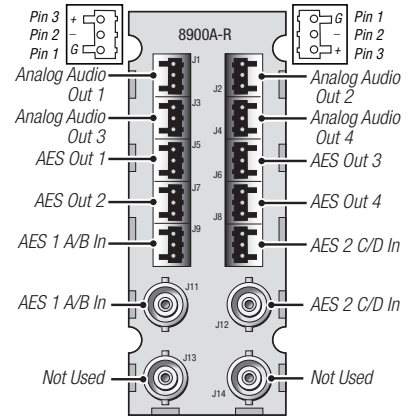


Key Features

- Two 32-96 kHz AES/EBU digital audio inputs, either balanced or unbalanced
- 24-bit D-to-A conversion
- Four balanced analog audio outputs 0 dBFS supports up to +24 dBu
- Four buffered digital balanced outputs
- Independent control of each audio:
 - Channel including
 - Channel pairing
 - Level adjustments
 - Phase inversion
 - Delay of up to 5 seconds
 - Tone generation
- Card-edge control and status indicators

The 8921DAC provides conversion of two digital audio streams, either balanced or unbalanced, to four analog audio outputs. In addition to digital to analog conversion, it offers per-channel independent delay with up to 5 seconds per channel. Its various modes enable modification of the outgoing analog signal, such as channel gain, swapping, channel summing, phase inversion, and more. Many adjustments to this card can be performed directly on the module's card-edge controls while a few of the more complex adjustments require the Web-based interface or the Newton control panel.



Specifications

Supported Frame Types

GeckoFlex with 8900A-R GeckoFlex Audio rear module, Gecko audio frames: 8900TX-A, 8900TF-A, 8900TFN-A

Power Rating

8 Watts – single slot

Digital Input

Digital audio input signal:

- Balanced: AES-3id-1992
- Unbalanced: AES-3id-1995

Number of inputs: Two balanced or unbalanced

Connector type:

- Balanced: mini-screw terminal block
- Unbalanced: BNC

Common mode range:

- Balanced: 20 Vp-p DC – 20 kHz
- Unbalanced: N/A

Sampling rate: Input sampling rate 32 to 96 kHz and output sampling rate 48 kHz

Input return loss: >25 dB (100 kHz to 10 MHz)

Input impedance:

- Balanced: 110Ω
- Unbalanced: 75Ω

Analog Output

Number of outputs: Four channels, single output each channel

Output impedance: 5Ω single-ended and 10Ω differential

Connector type: Mini-screw terminal block

Performance

Signal/noise ratio: >104 dB unweighted 22 kHz filter, >107 dB "A" weighted

THD + noise swept, 20 Hz to 20 kHz: >0.01% 22 kHz filter, +24 dBu (≥-80 dB)

Interchannel crosstalk: <-100 dB 20 Hz to 20 kHz

Frequency response: ±0.1 dB 20 Hz to 20 kHz wrt 1 kHz @ 48 kHz

Other

Operating temperature range: 0° to 45°C

Non-operating temperature range: -10° to +70°C

Humidity: 10% to 90% non-condensing

Ordering Information

This module can be mounted in a GeckoFlex frame when ordered with the 8900A-R GeckoFlex Audio Rear module.

8921DAC

Four-channel audio digital-to-analog converter with delay

8900-A-CBL (Gecko Frames only)

Package of four three-terminal to dual BNC cables, used for unbalanced outputs on modules in a Gecko frame

8900-GFA-CBL (GeckoFlex Frames only)

Package of four three-terminal to dual BNC cables, used for unbalanced outputs on 8900A-R modules in a GeckoFlex frame

For detailed specifications, installation, and setup instructions see:
www.grassvalley.com/docs/modular