Space-saving, modular platform for advanced signal processing.

The DAC-1721 from Grass Valley, a Belden Brand, is high-quality, 24-bit, digital to analog audio converter which allows conversion of two AES digital signal into two stereo analog audio signals.

The DAC-1721 is a dual input converter card. The input sampling rates can be up to 100 kHz, including 32 kHz, 44.1 kHz, 48 kHz and 96 kHz. An internal digital EBU tone generator facilitates alignment of audio levels. All analog audio output levels may be set individually. A digital 50/15 μs de-emphasis stage may be selected manually or automatically according to the channel status. Input status is also available indicating input audio signal presence or overload.

The DAC-1721 is compatible with both AES3 and AES-3id digital audio standards.
**KEY FEATURES**

- Single or dual AES3, AES-3id or S/PDIF digital input(s)
- Single or dual stereo analog audio outputs
- 0 dBFS programmable analog (+15, 16, 18, 20, 21, 22, 24 and 28 dBu) level mapping
- 24-bit D/A conversion
- 32 to 96 kHz sampling rates
- -96 to +12 dB level adjustment (by 0.5 dB steps) per channel
- Adjustable presence and overload threshold
- Internal EBU tone generator
- Digital 50/15 μs de-emphasis selectable

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**DAC-1721** Dual AES to Analog Audio Converter

**SPECIFICATIONS**

**Input**
- Signal: AES3
- Level: 0.2 to 7 Vp-p
- Termination: 110 Ω balanced
- Return loss: >15 dB up to 12 MHz
- AES-3id (S/PDIF compatible)
- Signal: AES-3id (SMPTE 276M)
- Level: 0.2 to 5.0 Vp-p
- Termination: 75 Ω unbalanced
- Return loss: >15 dB up to 12 MHz

**Outputs (2)**
- Signal: Balanced analog audio
- Impedance: <50Ω
- Maximum level: 24 dBu / 600 ohm

**Processing Performance**
- Quantization: 24 bits
- Sampling:
  - 20 to 50 kHz (128X over-sampling)
  - 50 to 100 kHz (64X over-sampling)
- 0 dBfs: +15, 16, 18, 20, 21, 22, 24 and 28 dBu
- SNR: >116 dB (A weighted)
- Distortion: <-96 dB
- Crosstalk: <-100 dB (20 Hz to 20 kHz)
- Freq. response: ±0.2 dB (20 Hz to 20 kHz)
- De-emphasis: ±0.3 dB (50/15 μs)
- Latency: 32/FS (670 μs at 48 kHz)
- Tone generator: 1 kHz sine wave interrupted on left channel (250 ms / 3s)

**Electrical**
- Power: 4.3W

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**ORDERING**

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