

lucid

ADA1000

20-Bit A/D and D/A Converter

Professional-quality analog and digital transfers—for a song.

You don't have to pay top prices to get first-class quality. The ADA1000 offers professional-quality, 20-bit analog-to-digital and digital-to-analog conversion technology for a very affordable price. Whether you work as a musician/producer or in a broadcast production studio, you can improve your jobs and your budget dramatically using the ADA1000.

The sounds of silence

Rack mounting is a key advantage of the ADA1000. Audio cards with on-board converters place their chips inside the computer, a very noisy environment for such critical components. But the ADA1000 is a clean, quiet, externally mounted device. Since we build our product with the best chips in the industry, you can count on wide dynamic range, lower distortion, and imperceptible noise.

The quality you demand

When it comes to dynamics, the ADA1000's over-sampling 20-bit delta/sigma technology approaches 100 dB of A-weighted dynamic range in both analog-to-digital and digital-to-analog signal paths. Further, it provides superior stereo imaging and clarity.

Fits into any studio

The ADA1000 connects to any industry-standard AES/EBU or S/PDIF digital audio ports. We provide both XLR and 1/4 in. connectors for interfacing with your balanced or unbalanced analog equipment.

From analog to digital ... and back again

Select from three sample rates—48 kHz, 44.1 kHz, or 32 kHz—or lock the A/D converter to an external AES/EBU reference signal. Either way, calibrated front-panel LED indicators show you exactly where to set the analog input controls to optimize the conversion process for low noise and wide dynamic range. Going back to analog, the ADA1000's D/A circuitry automatically locks to the sample rate of the incoming digital bit stream.



Key Features

- 20-bit resolution with AES/EBU and S/PDIF digital I/O
- 48 kHz, 44.1 kHz, and 32 kHz sample rates, plus the ability to lock to an external AES/EBU reference signal
- +4 dBu nominal I/O level
- XLR and 1/4 in. connectors supporting balanced and unbalanced analog connections



Performance

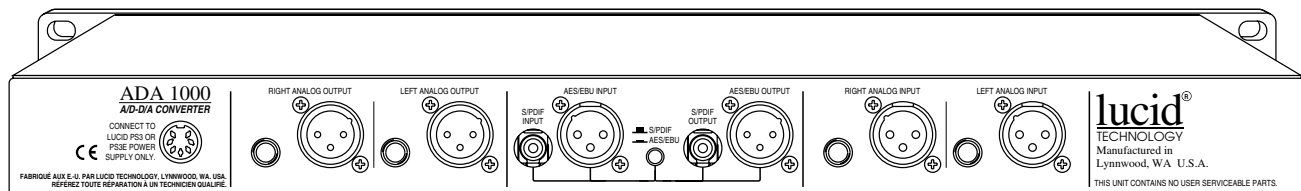
- Frequency response:
 - For 44.1 kHz and 48 kHz sample rates: 20 Hz to 20 kHz (+/-1 dB)
 - For 32 kHz sample rate: 20 Hz to 15 kHz (+/-1 dB)
- Dynamic range:
 - A/D section: >95 dBFS, A-weighted
 - D/A section: >90 dBFS, A-weighted
- Analog Input Impedance: 20 kΩ balanced, 10 kΩ unbalanced
- Maximum Analog Input Level: +25 dBu balanced
- Analog Output Impedance: 580 Ohm balanced
- Maximum Analog Output Level: +25 dBu balanced

Connectors

- Analog Input: 2 x balanced XLR, 2 x balanced/unbalanced 1/4 in. TRS
- Analog Output: 2 x balanced XLR, 2 x unbalanced 1/4 in. TRS
- Digital Input: 1 x AES/EBU (XLR), 1 x S/PDIF (RCA/coaxial)
- Digital Output: 1 x AES/EBU (XLR), 1 x S/PDIF (RCA/coaxial)

Physical

- 1U Chassis (H x W x D):
 - 1.72 in. x 19 in. x 4.75 in.
 - 4.37 cm x 48.26 cm x 12.06 cm
- Shipping Weight: 6.9 lb (3.13 kg)



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