ADA1000

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 and 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.

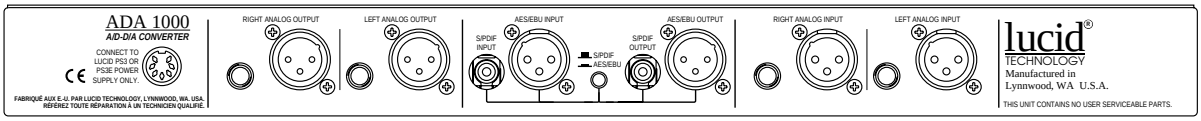
The quality you demand.
When it comes to dynamics, the ADA1000's over-sampling 20-bit delta/sigma technology approaches 100dB of A-weighted dynamic range in both analog-to digital and digital-to-analog signal paths. Further, it provides superior stereo imaging and clarity.

Fits into any studio.
The ADA1000 connects to any industry-standard AES/EBU or S/PDIF digital audio ports. We provide both XLR and ¼" connectors for interfacing with your balanced or unbalanced analog equipment.

From analog to digital . . . and back again
Select from three sample rates—48kHz, 44.1kHz, or 32kHz—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.

ADA1000 Key Features

- 20-bit resolution with AES/EBU and S/PDIF digital I/O
- 48kHz, 44.1kHz, and 32kHz sample rates, plus the ability to lock to an external AES/EBU reference signal
- +4dBu nominal I/O level
- XLR and ¼" connectors supporting balanced and unbalanced analog connections



ADA1000 20-Bit A/D-D/A Converter

Frequency response:

— For 44.1kHz and 48kHz sample rates:
20Hz – 20kHz (+/-1dB)

— For 32kHz sample rate:
20Hz – 15kHz (+/-1dB)

Dynamic range:

— A/D section:
>95dBFS, A-weighted

— D/A section:
>90dBFS, A-weighted

Analog input connectors:
Balanced XLR and balanced/ unbalanced ¼'' TRS

Analog input impedance:
20kΩ balanced, 10kΩ unbalanced

Maximum analog input level:
+25dBu balanced

Analog output connectors:
Balanced XLR and unbalanced ¼''

Analog output impedance:
580 balanced

Maximum analog output level:
+25dBu balanced

Digital I/O connectors:
AES/EBU (XLR) and S/PDIF (RCA/coaxial)

Compatible digital audio I/O cards

Lucid PCI24 and NB24

All cards with AES/EBU or S/PDIF connectors