

lucid

ADA8824 A/D and D/A

8 Channel 24-bit Analog/Digital/Analog Converter

The ultimate professional audio interface for ADAT and SonicStudio™ Digital Audio Workstations.

A perfectly transparent signal every time.

Get the performance you need for leading-edge music production and postproduction with the Lucid ADA8824, an audio interface that provides high-performance connections between your digital and analog gear. Two versions of the ADA8824 are available—one for ADAT-optical lightpipe gear and one for SonicStudio workstations from Sonic Solutions. Both units transfer eight channels of I/O simultaneously with 24-bit resolution. And digitally controlled attenuation of analog inputs and outputs with 15-segment LED metering help you realize your maximum dynamic range.

Geared to your needs.

Using the ADA8824, you can turn your computer into a full-blown professional recording workstation, regardless of which console or recorder you use. The ADAT version of the ADA8824 integrates perfectly with all your ADAT lightpipe-equipped digital audio gear, including mixers, recorders, and computer interface cards, such as the Alesis ADAT-PCR. Using this fiber-optic connection, you can transfer multiple channels of data more easily and cleanly than ever before. If your studio uses SonicStudio workstations, you can get the same 24-bit interface using the Sonic version of the ADA8824. We designed this unit in close collaboration with Sonic Solutions engineers, so the box is fully compatible with their hardware and software.

Rely on high-resolution audio conversion and experience maximum studio flexibility with the ADA8824 from Lucid.



KEY FEATURES

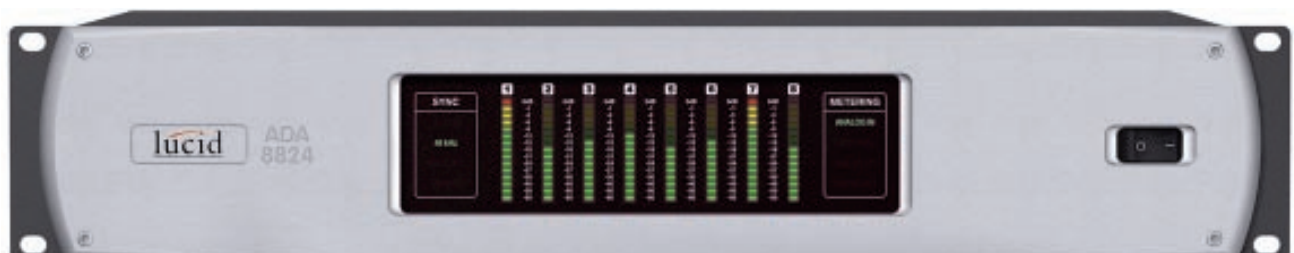
ADA8824 (ADAT)

- 8 analog I/O channels and 8 digital I/O channels, with precision metering of analog and digital I/O
- Full 24-bit A/D and D/A resolution
- Digitally controlled, precision analog I/O gain control
- ADAT-optical I/O and ADAT-sync I/O connectors



ADA8824 (Sonic)

- 8 analog I/O channels and 8 digital I/O channels, with precision metering of analog and digital I/O
- Full 24-bit A/D and D/A resolution
- Digitally controlled, precision analog I/O gain control
- Works with Sonic Solutions digital audio workstations using the SonicStudio 16•24 cards



Multiple channels for maximum flexibility.

The ADA8824 provides eight channels of 24-bit A/D and D/A conversion, eight channels of AES/EBU I/O, and two channels of S/PDIF I/O. If you want more than eight channels of digital and analog I/O and you have the required software and computer speed, simply add more ADA8824s.

Far-ranging dynamics.

The ADA8824's 24-bit resolution offers the utmost in quality and clarity. Its over-sampling 24-bit A/D technology produces 113 dBu (A-weighted) of dynamic range, providing the sonic detail required by leading producers and engineers.

Remote control.

The ADA8824 is the only product of its kind featuring digitally controlled analog attenuators on both inputs and outputs, so you can adjust operating levels from your computer screen using a graphical user interface. In addition, fifteen segment LED meters on the front panel of the ADA8824 provide multi-color level displays of analog and digital inputs and outputs.

Flexible sync options.

Your internal A/D sample rate can be set at either 48 kHz or 44.1 kHz. The ADA8824 can also be locked to an external AES reference signal or Word Clock. For D/A conversion, the ADA8824's circuitry automatically locks to the sample rate of the incoming digital bit stream.

Use your connections.

The ADA8824's balanced connectors provide the immunity to RFI that professionals demand. The analog and AES/EBU connections both use XLRs, and there are two USP ports for use with Sonic Solutions-compatible hardware. In addition, you can drive analog inputs of any impedance using the balanced XLR output jacks.

Analog-to-digital performance

- Conversion: 24-bit delta/sigma technology
- Signal-to-noise ratio: >113 dBFS, A-weighted
- THD+Noise: <0.005%
- Frequency response: 20 Hz to 20 kHz (+/-0.5 dB)
- Dynamic range: >113 dB
- Analog input impedance: 20 kΩ balanced
- Maximum analog input level: +25 dBu balanced

Digital-to-analog performance

- Conversion: 24-bit delta/sigma technology
- Signal-to-noise ratio: >105 dBFS, A-weighted
- THD+Noise: <0.005%
- Frequency response: 20 Hz - 20 kHz (+/-0.5 dB)
- Dynamic range: >105 dB
- Analog output impedance: 320 Ω balanced
- Maximum analog output level: +25 dBu balanced

Connectors

- Analog input and output connectors: 8 x balanced XLR
- Digital input and output connectors: 4 x AES3 XLR and 1 x S/PDIF RCA/coaxial
- Word Clock connector: BNC

On ADA8824 (ADAT) only:

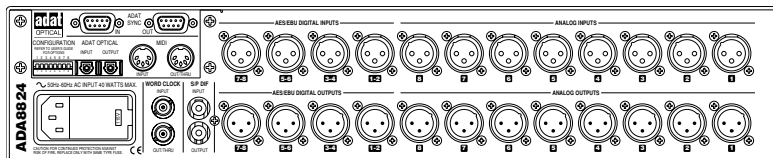
- ADAT connectors: 2 x ADAT-optical, 2 x ADAT sync (DB9)
- MIDI connectors: 2 x DIN5

On ADA8824 (Sonic) only:

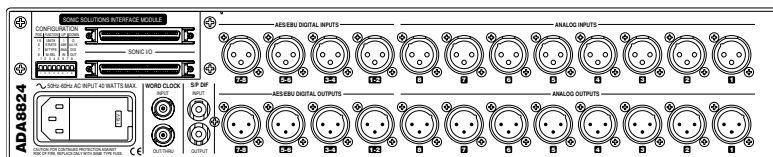
- Sonic USP connectors: 2 x 68-pin SCSI3

Physical

- 2U chassis: 3.47 in. (H) x 19 in. (W) x 9 in. (D)
8.81 cm (H) x 48.3 cm (W) x 22.86 cm (D)
- Shipping Weight: 17 lbs. (7.7 kg)



ADA8824 (ADAT)



ADA8824 (Sonic)



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