



**CONNECTING AT  
THE SPEED OF LIGHT.**



Lightpipe, or fiber-optic, connections are becoming a popular standard for digital audio transfer. It's easy to understand why. Using multiple channels simultaneously is incredibly convenient, and the Alesis ADAT-optical standard supports full 24-bit resolution.

Alesis pioneered the use of fiber-optic connections for digital audio transfer through its proprietary format. The Alesis PCR card works on Macintosh and Windows computers and is compatible with products from a wide range of vendors. The growing popularity of ADAT-equipped gear and the introduction of Lucid's ADA8824 (ADAT) make it even easier for you to stay in the digital domain throughout most of the production process.

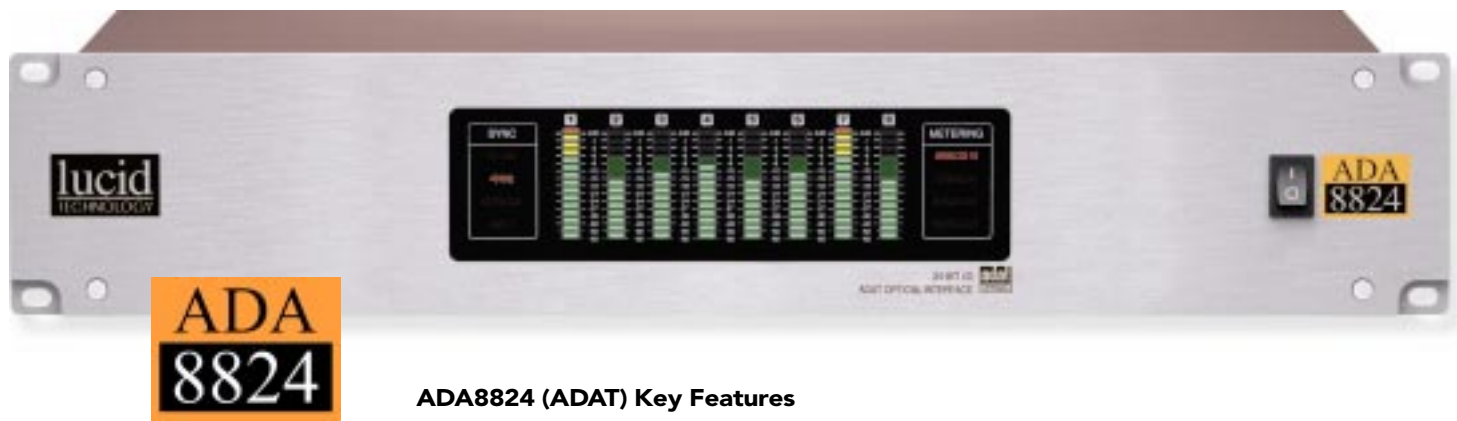
# ADA8824 (ADAT) and ADA8824 (Sonic)

**A perfectly transparent signal every time.**

Get the performance you need for leading-edge music production and post-production with an audio interface that provides an immaculate connection 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 high-resolution 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 seamlessly 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 elegant 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.



**ADA8824 (ADAT) Key Features**

- Eight analog I/O channels and eight 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 CAPABILITIES

### 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 provides the utmost in quality and clarity. Its over-sampling 24-bit A/D technology produces 113dBu (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 via 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 48kHz or 44.1kHz. 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.



### A VITAL PART OF YOUR SONICSTUDIO SYSTEM.

The ADA8824 is a required component of SonicStudio digital audio workstations using the SonicStudio 16•24 card.

These workstations are the product of choice for major recording labels, mastering studios, and CD plants around the world. Their unique combination of sound quality, precision, and



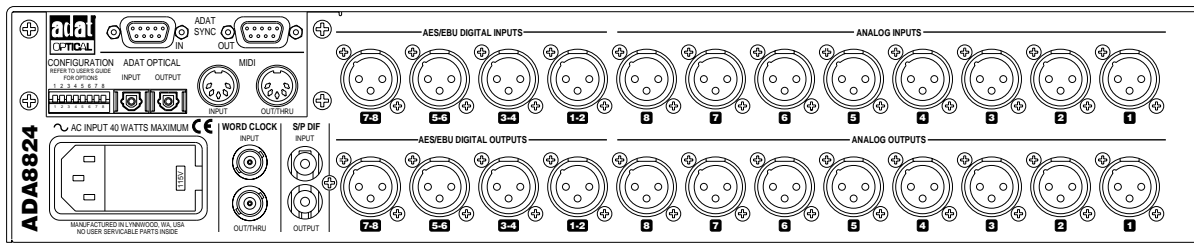
productivity makes it easy for you to achieve exceptional, distinctive sound.

The ADA8824 is compatible with SonicStudio software accessories and add-on application modules, such as Studio Suite, CD Mastering Suite, Audio Post Suite, and NoNOISE® Production Suite.



### ADA8824 (Sonic) Key Features

- Eight analog I/O channels and eight 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 card



## ADA8824 (ADAT) Multi-Channel Audio Interface

### Analog-to-digital performance

Conversion: 24-bit delta/sigma

Signal-to-noise ratio:  
>113dBFS, A-weighted

THD+Noise: <0.005%

Frequency response:  
20Hz – 20kHz (+/-0.5dB)

Dynamic range:  
>113dB, A-weighted

Analog input impedance:  
20kΩ balanced

Maximum analog input level:  
+25dBu balanced (+/-1dB)

### Digital-to-analog performance

Conversion: 24-bit delta/sigma

Signal-to-noise ratio:  
>105dBFS, A-weighted

THD+Noise: <0.005%

Frequency response:  
20Hz – 20kHz (+/-0.5dB)

Dynamic range:  
>105dB, A-weighted

Analog output impedance:  
320Ω balanced

Maximum analog output level:  
+25dBu balanced

### Connectors

Analog input and output connectors:  
8 x balanced XLR

Digital input and output connectors:  
4 x AES/EBU XLR and 1 x S/PDIF  
RCA/coaxial

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

MIDI connectors: 2 x DIN5

Word Clock connector: BNC

### Physical

2U chassis: 3.469”(H) x 19”(W) x 8.5”(D)

### ADAT-optical compatible hardware

Alesis ADAT Type II Systems: XT20, LX20, M20

Fostex D160 Hardisk Recorder

Yamaha 02R Digital Mixer

### ADAT-optical compatible audio cards

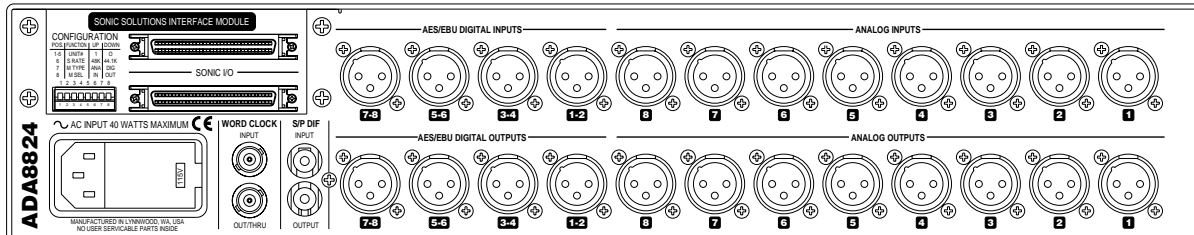
Alesis-PCR

Sonusor STUDI/O

Korg 1212 I/O

SEK'D ProDif Gold

Frontier Designs Montana, Dakota



## ADA8824 (Sonic) Multi-Channel Audio Interface

### Analog-to-digital performance

Conversion: 24-bit delta/sigma

Signal-to-noise ratio:  
>113dBFS, A-weighted

THD+Noise: <0.005%

Frequency response:  
20Hz – 20kHz (+/-0.5dB)

Dynamic range:  
>113dB, A-weighted

Analog input impedance:  
20kΩ balanced

Maximum analog input level:  
+25dBu balanced (+/-1dB)

### Digital-to-analog performance

Conversion: 24-bit delta/sigma

Signal-to-noise ratio:  
>105dBFS, A-weighted

THD+Noise: <0.005%

Frequency response:  
20Hz – 20kHz (+/-0.5dB)

Dynamic range:  
>105dB, A-weighted

Analog output impedance:  
320Ω balanced

Maximum analog output level:  
+25dBu balanced

### Connectors

Analog input and output connectors:  
8 x balanced XLR

Digital input and output connectors:  
4 x AES/EBU XLR and 1 x S/PDIF  
RCA/coaxial

Sonic USP connector:  
2 x 68-pin SCSI-3

Word Clock connector: BNC

### Physical

2U chassis: 3.469”(H) x 19”(W) x 8.5”(D)

### Compatible digital audio I/O card

SonicStudio 16•24

