

96i I/O

Preliminary Information

Multi-channel, 96 kHz-capable Pro Tools|HD I/O Device

M | W
Mac OS | Windows

FEATURES

- High-quality, 2U I/O device for instruments and effects gear
- 24-bit balanced TRS connections: 16 analog inputs, 2 analog outputs
- Two channels of 24-bit S/PDIF I/O (RCA connection)
- Supports sample rates up to 96 kHz
- Digidesign 96 I/O-quality converters
- Software-adjustable level controls for inputs (six-step for inputs 1-4, two-step for inputs 5-16); outputs software-switchable between +4 dBu and -10 dBV
- 108 dB or greater dynamic range
- Support for balanced and unbalanced connections
- Front-panel LEDs for input and output metering
- Multiple units provide up to 96 discrete inputs
- Compatible with Pro Tools|HD cards and peripherals

Looking for an affordable way to integrate your racks of hardware synths and/or samplers into Pro Tools|HD? Look no further. Introducing 96i I/O, the newest audio interface for Pro Tools|HD. The HD version of the popular MIX-era Digidesign 1622 I/O, 96i I/O offers an affordable line-level alternative within the Pro Tools|HD family of audio interfaces.

96i I/O enables you to readily introduce output from third-party outboard gear — keyboards, samplers, effects & other line-level equipment — into your Pro Tools environment. With its analog and digital inputs, high sample rate support, and robust design, 96i I/O makes affordable sense for home/project studios and professional studios alike.

96i I/O's sixteen analog inputs provide balanced or unbalanced A/D conversion using tip-ring-sleeve (TRS) 1/4" connectors. A 24-bit-capable S/PDIF digital I/O port allows you to connect professional DAT recorders, CD players, and other digital recording devices. A/D and D/A converters of the same quality as those of the Digidesign 96 I/O ensure that your signals' fidelity is maintained going into and coming out of Pro Tools.

Each input on the 96i I/O includes recallable, software-adjustable level controls — six-step for inputs 1-4, two-step for inputs 5-16 — to accommodate the wide variance of instrument output levels. Its outputs are switchable between +4 dBu and -10 dBV.

In conjunction with Pro Tools software, 96i I/O also acts as a virtual patch bay, enabling you to change connections with just one click. These two features allow 96i I/O to work much like a hardware mixer within your Pro Tools studio.

As with the other Pro Tools|HD interfaces, 96i I/O includes a Peripheral port to facilitate connection to additional Pro Tools|HD gear. It can also be used as the primary interface for your Pro Tools|HD or Pro Tools|HD Accel system, both of which require a Digidesign HD audio interface to operate.

Up to six 96i I/O units can be used to provide 96 inputs for Pro Tools|HD systems. And in addition to audio-only applications, 96i I/O is the perfect audio interface for MIDI-based studios, functioning seamlessly with Pro Tools|HD's enhanced MIDI capabilities. With its I/O configuration, sound quality and flexibility, 96i I/O represents a true value for price/performance.

SYSTEM REQUIREMENTS

Digidesign-approved computer running Pro Tools|HD Accel or Pro Tools|HD, and Pro Tools TDM 6.2 software

For the latest Digidesign product information and system requirements, and the latest Development Partner plug-in and software compatibility information, visit www.digidesign.com.



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SPECIFICATIONS

A/D

Sample Rate: 44.1, 48, 88.2, 96 kHz $\pm 10\%$
 Dynamic Range: 111 dB (A-weighted),
 108 dB (unweighted)^{1,4}
 THD+N: 0.0008% / 0.0013% (-102 dB / -98 dB);
 +5 dBV/+17 dBu⁵
 Frequency Response: Response: +0.1 / -0.2 dB @ -2 dBu,
 20 Hz - 20 kHz^{1,2}
 Differential Input Impedance: >25 kohms

D/A

Sample Rate: 44.1, 48, 88.2, 96 kHz $\pm 10\%$
 Dynamic Range: 113 dB (A-weighted),
 111 dB (unweighted)^{1,3}
 THD+N: 0.003%/0.003% (-90 dB / -90 dB);
 -1 dBFS @ 997 Hz⁶
 Frequency Response: +0.1 / -0.4 dB; -20 dBFS,
 20 Hz - 20 kHz^{1,2}
 Differential Output Impedance: 50 ohms (typical)

Physical Specifications

Power Requirements: 100 - 250 VAC, 47-63Hz, 35 Watts
 Weight: 16.5 lbs
 Dimensions: 2U external 19" rack mount device: 17" wide
 (19" including rackmount flanges) x 3.5" high x 14" deep

- 1 Measurement made using +4 dBu input or output settings
- 2 Measured relative to level at 1 kHz
- 3 Measured with digital input at -60 dBFS @ 997 Hz
- 4 ADC measured with analog input level at -42 dBu @ 997 Hz
- 5 THD measured with input settings at -8 dBV / +4 dBu respectively
- 6 THD measured with output settings at -10 dBV / +4 dBu respectively

Sample Rate = 48 kHz, Noise BW = 22 Hz - 20 kHz
 unless otherwise noted, Tambient = +25 C



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