

# Series 300

8 Channel DSP I/O Processors  
from Sonic Studio

## Celebrated workflow, Unquestioned fidelity

The Series 300 DSP I/O processors are the ideal compliment to studioX, multiplying its power, fidelity and flexibility. Three distinct models offer increasingly more analog capabilities, so you can mix and match according to your needs and budget. With superior signal paths, the Series 300 works with all OS X audio applications so you are free from hardware lock-in. Their true strength lies, however, in their intimate connection to our peerless production application, studioX, and the NoNOISE II restoration suite. Increase your productivity with our streamlined workflow while improving your quality with the Series 300 from Sonic Studio.



### All Eight Channel Models:

Enhances the operation of Sonic Studio's software

- Purpose-built to run Sonic Studio's soundBlade & NoNOISE II

Extended Precision 192 kHz 48 bit Signal Pathways

- Superior sonics for all your work, in keeping with Sonic Studio's heritage

Patching Flexibility in Both Software & Hardware

- Comprehensive control of signal flow plus analog & digital loop through to external gear

Exceptional Embedded Processing

- On-board DSP allows the host CPU to get on with other work

Chainable Isochronous FireWire Interface

- Increase channel count and DSP power without losing versatility

Includes Graphing Version of Sonic Studio's Minimal Phase EQ

- Full parametrics, shelves, bandpass/stop, notch + RIAA de-emphasis

High Quality Clock Master

- Low jitter provides pinpoint imaging & solid low end
- SMPTE/EBU LTC I/O

### Model 304 adds:

Eight Channels of Line Level Analog I/O

- Low noise, exceptional quality analog feeds
- Synchronize with legacy systems & sound for picture

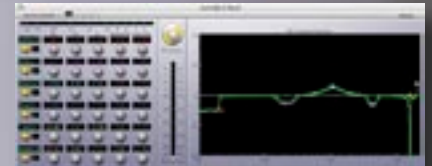
Outboard & Headphone Monitoring

- Near-zero latency, high fidelity hardware monitoring,
- Perfect for location recordings & live performance

### Model 305 adds:

High Quality Conversion

- Eight channels of Jensen-coupled or colorless solid state microphone preamps



Sonic Studio's minimal phase EQ,  
part of all Series 300 Processors

Series 300 8 Channel DSP I/O Processors



Trust the transparency

## Speeds & Feeds:

### All Models:

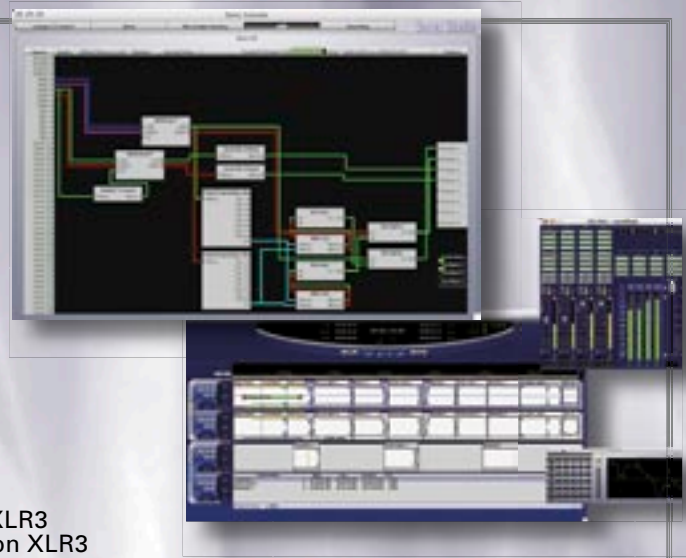
Full 24 bit/192 kHz audio I/O  
 44.1 to 192 kHz sampling rates  
 Word clock I/O, 1x or 256x on BNC  
 SMPTE LTC I/O on 1/4" TRS  
 8 channels AES/EBU Type I digital I/O on XLR3  
 80 bit mixer and over two dozen types of plug-ins  
 DSP compliment: two ADSP-21065 + one ADSP-21364  
 Dual 6 pin FireWire 400 (IEEE 1394a) host connectors  
 Full Core Audio support for all Mac OS X applications  
 Defeatable asynchronous SRC on input  
 8 simultaneous inputs & outputs  
 Rack mount kit hardware included  
 Mains or battery powered

### Model 304: all 303 features plus...

8 balanced analog +4 dBu analog sends on XLR3  
 8 balanced analog +4 dBu analog inputs, with trim, on XLR3  
 8 balanced analog +4 dBu analog monitor/line outputs on XLR3  
 2 balanced analog +4 dBu analog monitor outputs, 1/4" TRS  
 Stereo balanced analog send & return, 1/4" TRS  
 24 bit A/D converters, 116 dB unweighted, 120 dB A-weighted  
 24 bit D/A converters, 120 dB A-weighted  
 DSP: one ADSP-21364  
 Independent headphone output, 1/4" TRS

### Model 305: all 304 features plus...

8 balanced analog +4 dBu analog preamp inputs on XLR3  
 Switchable phantom on all 8 preamps  
 8 channels of high gain, low noise preamplification  
 with phantom power & optional transformer coupling



#### All Series 300 Include:

- Encode/Decode Mid/Side Processor
- 2x2, 3x3, 4x4, 5x5 & 6x6 Crosspoint Mix Matrixes
- 1 & 2 Channel, 6 & 12 Band Fully Parametric EQs
- 2 Input Summing Node
- 2 Input Difference Node
- 2 Input Sum & Difference Node
- 2 Input Multiplier
- 1 & 2 Channel Delays
- Multitap Delays
- 1st Order Allpass Filter
- Allpass + Delay
- Variable Soft & Hard Limiters
- Slew Rate Limiters
- Distortion Generators
- 2 into 1 to 16 into 8 Crossfader/Switches
- Oscillators & LFOs
- Noise Generators
- Scale & Offset Transform
- Multimode Filter
- Pitch Shifter
- 1 & 2 Channel Dynamics
- 1 & 2 Channel Dynamics/Limiters
- 1 & 2 Channel EQ + Dynamics w/Side Chain

**Stereo**  
**Multi-ch**



## Model 305 Microphone Input Specifications:

Gain Range with Trim	-14 dB to +70 dB
Harmonic Distortion @ 1 kHz (+9 dBu in @ 6 dB Gain)	0.0005%
Intermodulation Distortion (1 kHz component, 19 kHz/20 kHz @ +8 dBu)	-96 dBu
Equivalent Input Noise, 20 Hz–20 kHz Flat @ 72 dB Gain, 150 Ω Source	-130.5 dBu
Equivalent Input Noise, 20 Hz–20 kHz Flat @ 72 dB Gain, 0 Ω Source	-134.0 dBu
Frequency Response, 18 Hz–20 kHz	± 0.1 dB
Frequency Response, 3 Hz–100 kHz	± 3.0 dB
Crosstalk @ 1 kHz, trim link engaged	-107 dB



www.sonicstudio.com

Sonic Studio, LLC  
 330 Sir Francis Drake Blvd, Suite G  
 San Anselmo CA 94960-2552  
 415-460-1201, 775-330-8923 fax

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