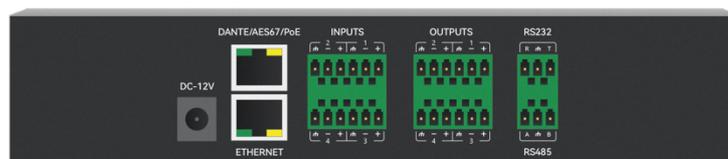


# iSound 44D

4x4 Digital Sound Processor w/ Dante

*Datasheet V1.0*





## Introduction:

The iSound D44 is a versatile digital signal processor based on A-DSP Architecture with 40-bits floating point, capacity up to 400MIPS, 1600MFLOPS, 4x4 analog inputs and outputs, 4x4 Dante I/O channels.

In-built USB audio channel, which can process both analog and digital signals. It has great advantages on its core Algorithms which include AEC, AFS, ANS, AGC, and ANC. Supports RS232, RS485 and UDP control, and PoE power supply.

## Features

- ADI SHARC 21489 processor
- 4 balanced microphone or line level inputs on Terminal Block connectors
- 4 balanced line level outputs on Terminal Block connectors
- 2 Dante audio interfaces on RJ-45 connectors
- Dante audio channels up to 4x4
- Definable GUI for managing and configuring multiple units
- All Inputs and Outputs support a full suite of audio shaping tools including graphic and parametric EQ, dynamics, ducker, delay and more
- 16 preset slots to store all configuration data for easy recall
- Built-in USB sound card for recording and playing digital audio
- DASH software tool for managing all audio operations
- Supports adaptive echo cancellation (AEC), adaptive feedback control (AFC), automatic gain control (AGC), automatic mixture control (AMC), automatic noise suppression (ANS)

## Spec

<b>Model</b>	iSound 44D
<b>Name</b>	4x4 Digital Sound Processor w/ Dante
<b>Audio</b>	
<b>ADSP</b>	ADI SHARC 21489 (×1)
<b>Audio Format</b>	24 bits, 48 kHz sampling rates (uncompressed)
<b>System Latency</b>	< 3 ms
<b>Analog I/O Channels</b>	4x4
<b>Dante I/O Channels</b>	4x4
<b>Analog Input Gain</b>	0, 10, 20, 30, 40, 43 dB
<b>Analog Input Level</b>	+24 dBu
<b>Analog Output Level</b>	+24 dBu
<b>Frequency Response</b>	±0.2 dB (20 Hz to 20 kHz)
<b>THD+N</b>	< 0.003% (1 kHz, +4 dBu)
<b>Common Mode Rejection Ratio</b>	103 dB @ 60Hz
<b>SNR</b>	110 dB
<b>Analog Dynamic Range</b>	113dB
<b>Dante Dynamic Range</b>	113 dB
<b>Analog Background Noise</b>	-89 dBu (A-weighted)
<b>Dante Background Noise</b>	-91 dBu (A-weighted)
<b>Channel Isolation</b>	108 dB (1 kHz)
<b>Input Impedance</b>	20k ohms (Balanced)
<b>Output Impedance</b>	100 ohms (Balanced)
<b>Phantom Power</b>	48 V
<b>Interface</b>	
<b>Input Port</b>	4 Analog Audio (Terminal Block)
<b>Output Port</b>	4 Analog Audio (Terminal Block)
<b>Ethernet Port</b>	2 Dante Audio (RJ-45) 1 LAN (RJ-45)
<b>USB Port</b>	1 USB Audio (Type-A)
<b>Serial Port</b>	1 RS-232 (Terminal Block) 1 RS-485 (Terminal Block)
<b>Power</b>	
<b>AC Power</b>	110 to 240 VAC at 50 or 60 Hz
<b>AC Adapter</b>	12 VDC or PoE
<b>Power Consumption</b>	10w



<b>Physical</b>	
<b>Chassis Material</b>	Metal
<b>Chassis Color</b>	Black
<b>Chassis Dimensions (H x W x D)</b>	45×241×130 mm
<b>Chassis Weight</b>	1.5kg
<b>Environment</b>	
<b>Operating Temperature</b>	+32 to +104 °F (0 to +40 °C)
<b>Humidity</b>	10% to 90% RH (non-condensing)
<b>Regulatory Compliance</b>	FCC, CCC, CE, RoHS