



Introduction

The WolfPack 12x8 Digital Audio Processor (8x8Dante) is a powerful digital audio signal processing platform based on a 64-bit floating-point DSP engine.

This product series offers a comprehensive range of digital processing tools for audio system design, configuration, and optimization.

The DSP Controller software fully controls and manages the entire DSP series and all its processing functions, including AFC, AEC, ANS, ANC, AM, AGC, Ducker, PEQ, GEQ, delay, and crossover.

The intuitive graphical interface is a key component of the DSP Controller software, providing quick and convenient viewing of all signal channels in a single window.

Within this user-friendly environment, audio system designers or installers can clearly view and adjust all input levels, audio DSP processing parameters, mix relationships, and output levels..

Features

- Processor: ADI SHARC 21489 @ 450 MHz SIMD;
- DSP processing power: 400 MIPS, 1.6 GFLOPS;
- 17-level adjustable input sensitivity, up to 48dB;
- Phantom power: +48V/Max 10mA;
- Configurable processing software, each channel can freely change the processing module according to needs;
- Supports 8 devices to operate simultaneously online;
- Up to 4 channels of independent AEC, maximum echo tail time: 512ms, convergence rate: 60dB/s, Echo cancellation amplitude: 60dB;
- AFC (feedback suppression) of independent channels, using a notch algorithm, with a transmission gain improvement of 10dB;
- Adaptive Noise Suppression (ANS), without relying on a large noise feature database, built-in noise cancellation technology, which improves the signal-to-noise ratio of sound collection by 15dB;
- Automatic Gain Control (AGC), automatically controls the signal waveform and tone within the appropriate range, automatic gain control: -6dB to +18dB, automatic equalization control: -12dB to +12dB;
- Ducker, Noise Gain Compensator (ANC), gain sharing automatic

- mixing (AM), threshold automatic mixing (Gate Mixer);
- 12-band British parametric equalization, providing 5 filter options: Parametric, Lowshelf, Highshelf, Lowpass, Highpass
- provides a customizable user interface for end users, supporting the management of up to 30 devices through a single interface. It also features
- a built-in USB sound card that supports music playback, recording, and soft video conferencing (e.g., Zoom, Tencent Meeting, DingTalk, etc.).
- It also has a central control function that allows for overall control of the system's power supply, signal switching, environmental control, audio, and more, enabling one-click activation of all system functions.

Specification

Name	WolfPack 12x8 Digital Audio Processor
Processor	ADI SHARC 21489
Data bit	48K/24bit
Input Gain	0/3/6/9/12/15/18/21/24/27/30 33/36/39/42/45/48 dBu
Phantom powe	+48V/10mA max
Frequency (20~20kHz)	±0.3dB
Maximum voltage level	+18dBu
THD+N	<-94dB @4dBu
Input Dynamic range	110dB
Output Dynamic range	112dB
Channel isolation@1kHz	108dB
Input impedance (balanced)	5.4KΩ
Output impedance (balanced)	600Ω
Latency	<3ms
Power	AC117~220V,50Hz/60Hz
Dimension(mm)	482 x 260 x 45 mm
Weight(lbs)	9

Customized UI and multi controls

