



## Introduction

The HDTV Supply **WolfPack 8X8 Audio Processor with TCP/IP, RS232 Control, USB Audio Input** adopts the ADI SHARC 21489 processing chip, which is based on a 64-bit floating-point DSP engine and a powerful digital audio signal processing platform.

This series of products provides a wide range of digital processing tools for audio system design, configuration, and optimization.

The DSP Controller software can fully control and manage the entire series of DSPs and all their processing functions, including AFC, AEC, ANS, ANC, AM, AGC, Ducker, PEQ, GEQ, delay, crossover and other functions.

The intuitive graphical user interface is the main component of the DSP Controller software.

It allows users to quickly and conveniently view all signal channels in a single window.

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

## **Features**

- Processor: ADI SHARC 21489@450 MHz SIMD;
- DSP processing capability: 400 MIPS, 1.6 GFLOPS;
- Input sensitivity adjustable in 17 levels, maximum up to 48dB;
- Phantom power: +48V/ Max 10mA;
- Supports simultaneous online operation of up to 8 devices.
- Maximum 4-channel independent AEC, maximum echo tail length: 512ms, convergence rate: 60dB/S, echo cancellation amplitude: 60dB;
- Independent channel AFC (feedback suppression), using notch filter algorithm, voice gain enhancement amplitude: 10dB;
- Adaptive noise suppression (ANS), no need to rely on a large noise feature database, built-in noise elimination technology, improving the signal-to-noise ratio of sound collection by 15dB;
- Automatic gain control (AGC), automatic control of signal waveform and pitch within appropriate range, automatic gain control: -6dB to +18dB, automatic equalization control: -12dB to +12dB;
- Ducker, ANC (noise gain compensator), AM (automatic mixing with shared gain), Gate Mixer for threshold-based automatic mixing;
- 12-band British-style parametric equalizer with five filter options available: Parametric, Lowshelf, Highshelf, Lowpass, Highpass;
- Provides customizable user interface for end users; supports simultaneous management of up to 30 devices on the same interface;
- Built-in USB sound card supports music playback/recording and software video conferences such as ZOOM and Tencent Meeting.
- Central control function allows overall control of power supply switching signals environmental controls audio etc., enabling one-click activation of required system functions.

## Specification

| Name                           | WolfPack 8X8 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<br>(balanced)  | 5.4KΩ                                              |
| Output impedance<br>(balanced) | 600Ω                                               |
| Latency                        | <3ms                                               |
| Power                          | AC110~240V, 50Hz/60Hz                              |
| Dimension (Inch)               | 19 x 10.5 x 1.77                                   |
| Weight (lbs)                   | 9 LBS                                              |