

Full Digital SV0404ES,SV0808ES,SV1608ES,SV1616ES Digital Audio Processor - ES Series

Product Description

The general purpose of the digital audio processor, ADI SHARC 21489, has a frequency of 450M Hz and supports 4/8/16 MIC/Line inputs, a 48V phantom supply, and 4/8/16 balanced line outputs. DSP has powerful processing ability, Each input channel is provided with a feedback suppressor, a noise gate, a high-pass filter, a low-pass filter, a delayer, a voltage limiter and a parametric equalizer (PEQ/High Shelf/Low Shelf), and each output channel is provided with a high-pass filter, the low-pass filter, the parametric equalizer (PEQ/High Shelf/Low Shelf), the voltage limiter and the delayer: built-in sine wave, pink noise, white noise signal generator. Store 16 scene presets, a communication port, 1 RS-232 and an open third-party control protocol. Support to extend the touchscreen control panel installed on the wall. You can set the volume and call the mode preset through the wall control panel. It is used for meeting rooms, multi-function halls and live performances.



Features

AEC

AFC

ANS

AGC

AM

- Processor: ADI SHARC 21489@450 MHz SIMD;
- DSP processing capability: 400 MIPS, 1.6 GFLOPS;
- Sampling rate: 48 kHz, ± 100 ppm;
- THD+N:0.002% @+4dBu
- Input dynamic range: 110dB
- Output dynamic range: 110dB
- 1 channel RS232
- Built-in USB sound card, supports music playback, recording and soft video conferencing (such as ZOOM, Tencent Conference, DingTalk Conference, etc.);
- Bus-type AEC, tail time: 512ms, convergence rate: 60dB/S, echo cancellation amplitude: 60dB;
- Independent channel AFC (Feedback Suppression), using notch algorithm, sound transmission gain improvement: 10dB;
- Noise suppression (ANS), signal-to-noise ratio increased by 18dB
- 8-band British parametric equalizer, providing 5 filter options: Parametric, Lowshelf, Highshelf, Lowpass, Highpass;
- Provide end-user customized operation interface, supporting up to 30 devices managed by the same interface;
- It has a central control function, which can control the power supply, signal switching, environment control, audio, etc. in the system as a whole, and realize the functions required to start the system with one click.

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Specifications

Model	ES Series- SV0404ES,SV0808ES,SV1608ES,SV1616ES
Audio input	4/8/16 channel balanced input, Phoenix plug
Maximum input level	0/6/12/18/24/30/36/42/48dB
Input impedance	5.4KΩ
Output impedance	600Ω
Phantom power	+48 VDC
Audio output	4/8/16 channel balanced input, Phoenix plug
Dynamic input & output range	110dB
Channel isolation @1kHz	108dB
Signal processing	32-bit ADI SHARC 21489 Frequency 450M Hz
Ampling frequency/quantization	48 kHz, 24Bit ADC, 24Bit DAC
Frequency response	±0.5dB (20~20kHz)
THD + Noise	<-100dB @4dBu
Channel Separation	100 dB (1 kHz)
CMRR	>75dB
Noise floor (A-weighted-analog)	-89dBu
SNR	97dB
System latency	<3ms
Size of equipment	482×260×45mm
Power supply	AC110~240V,50Hz/60Hz 75W
Operating temperature	-20°C--80°C
Packing weight	3 kg
Safety	CE,FCC,RoHS,(ISO9001:2015,14001:2015,45001:2018, 27001:2022 -IAF Certified)

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