

TE0404A

4x4 Digital Audio Processor



AEC

ANS

AFC

Features

- Built-in two-in and two-out USB sound card, supports music playback, recording and soft video conferencing (such as ZOOM, Tencent Conference, DingTalk Conference, etc.);
- Two channels of independent 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 and supports three control methods: RS232, RS485, and UDP. It 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;

DSP parameters

Processor	ADI SHARC 21489	Frequency response (20~20kHz)	±0.5dB
Sampling rate/quantization bits	48K/24bit	Maximum input and output level	+18dBu
Number of analog input and output channels	4 x 4	THD+N	<-100dB @4dBu
		Dynamic range (analog channel)	110dB
Input gain	0/6/12/18/24/30/36/42/48 dB	Input dynamic range	110dB
		Output dynamic range	112dB
System delay	<3ms	Input impedance (balanced connection)	5.4KΩ
		Output impedance (balanced connection)	600Ω
Phantom power	+48V/10mA max		

Amplifier parameters

Output power (EIAJ test standard)	Stereo 2*150W/8Ω, bridged 300W/8Ω	Input impedance	4.5kΩ balanced
Input sensitivity	2V	Conversion rate	50V/μs@8Ω, input filter bypassed
THD+N	< 0.08% from 0.1W to 1/2 power (typically <0.05%)	Damping coefficient	>500@1KHz
		Working power supply	90V~264V, 50~60Hz
Signal-to-noise ratio	>80dB (20Hz~20kHz, A weighted)	Dimensions (width x depth x height)	482 x 260 x 45mm
		Weight	7Kg
DIM100	< 0.2% from 0.1W to 1/2 power (typically <0.05%)	Crosstalk isolation	80dB@1kHz
Frequency response	20Hz~20kHz (±0.5dB)@1W, 8Ω		