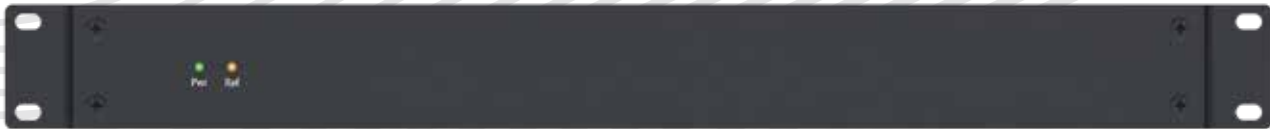


FBD1616

16x16 Digital Audio Processor



Features

- Analog input channels: 16
- Analog output channels: 16
- 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.

Specifications

Processor	ADI SHARC 21489
Input dynamic range	110dB
Sampling rate/quantization bits	48K/24bit
Output dynamic range	110dB
Number of analog input and output channels	16x16
Channel isolation @1kHz	108dB
Input gain	0/6/12/18/24/30/36/42/48dB
Input impedance (balanced connection)	5.4K Ω
Phantom power	+48V/10mA max
Output impedance (balanced connection)	600 Ω
Frequency response	± 0.5 dB(20~20kHz)
System delay	<3ms
Maximum level	+18dBu
Working power supply	AC 220V, 50Hz
THD+N	0.002% @+4dBu
Dimensions (width x depth x height)	482 x 200 x 45mm
Shipping weight	3KG