



## SC-A0404/SC-A0808/SC-A0812/SC-A1208/SC-A1616

### Digital Audio Processor



#### Product description

General purpose digital audio processor, ADI SHARC 21489, frequency 450M Hz, supports 4/8/12/16 MIC/Line inputs, supports 48V phantom supply, 4/8/12/16 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. A plurality of scene presets are stored, Customizable label, 1 TCP/IP communication port, 1 RS-232 communication port, 1 RS-485 communication port and open third-party control protocol. Support to extend the touch screen 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

- Latest audio processor technology, 40 bit DSP floating-point operation engine processing chip, 24 bit A/D and D/A conversion, audio sampling rate up to 48 KHz.
- Provides 4/8/12/16 balanced mic/line inputs with bare wire interface terminals and 4/8/12/16 balanced outputs with bare wire interface terminals.
- The input can be customized according to the functions supported in different scenarios. Three types of parameter equalization are supported: 5-segment parameter equalization, 8-segment parameter equalization, and 12-segment parameter equalization; There are three types of graphical equalization: 10-segment graphical equalization, 15-segment graphical equalization, and 31-segment graphical equalization; There are three types of feedback inhibition: 5-stage feedback inhibition, 8-stage feedback inhibition and 12-stage feedback inhibition
- The output can be customized according to different scene support functions, supporting three types of parameter equalization: 5-segment parameter equalization, 8-segment parameter equalization and 12-segment parameter equalization; There are three types of graphical equalization: 10-segment graphical equalization, 15-segment graphical equalization, and 31-segment graphical equalization;
- Built-in USB sound card, supporting playing USB audio files, recording and remote conference
- Input: preamplifier, signal generator, expander, compressor, parametric equalizer, automatic gain, feedback suppressor, etc.
- Output: graphic equalization, high and low pass, delayer, limiter, output forward and reverse, gain adjustment



- Built-in microphone adaptive feedback cancellation (AFC), digital matrix, automatic mixing, echo cancellation, noise suppression.
- Support marshalling control function, multi-group scene presetting, remote management function, and channel copy, paste and joint control function.
- Input and output channels support LINK joint debugging and group linkage debugging;
- The device supports APP control and supports IOS, Android, WINDOWS, etc. The APP software supports user customization, and the processor can be controlled through APP, such as volume, preset call, external control of third-party equipment (supporting RS232, RS485, UDP, etc.), matrix switching, etc.
- The system integrates the central control function, supports RS232, RS485 and UDP control, and simply controls the projection, curtain, lighting, curtain, power sequencer and other third-party equipment.
- The product supports the expansion of external control panel functions, with at least two types of panels, which can realize remote control of the processor, such as volume, preset call, external control of third-party equipment (supporting RS232, RS485, UDP, etc.), matrix switching, etc.
- The product has the function of camera tracking, which can realize the voice tracking of 48 V phantom power supply microphone. According to the corresponding microphone tracking of the voice threshold, the camera supports PELCO \_ D, PELCO \_ P, VISCA and other protocols.
- The RS-232 bidirectional serial control interface is used to control other external devices, such as RS-232 devices such as video matrix, or to receive third-party RS-232 control, such as AMX and Crestron.
- With Chinese and English operating software, intuitive and graphical software control interface, it can work in Windows2000/XP/Windows7/Windows 10 system environment.

#### Technical parameters

Model	SC-A0404/SC-A0808/SC-A0812/SC-A1208/SC-A1616
Audio input	4/8/12/16 channel balanced input, Phoenix plug
Maximum input level	12dBu/Line, -9dBu/Mic
Input gain	0/10/20/30/40/43 dB
Input impedance	Balance 9.4K $\Omega$
Phantom power	+48 VDC
Audio output	4/8/12/16 channel balanced input, Phoenix plug
Output impedance	Balance 102 $\Omega$
Signal processing	32-bit ADI SHARC 21489 Frequency 450M Hz
Amplifying frequency/quantization	48 kHz, 24Bit ADC, 24Bit DAC
Frequency response	20~20kHz ( $\pm 0.2$ dB)
THD + Noise	0.003% @4dBu
Noise floor (A-weighted-analog)	-89dBu
Size of equipment	482×260×45mm
Power supply	AC110~240V,50Hz/60Hz 75W
Operating temperature	-20℃--80℃
Packing weight	3 kg