

DIGITAL SOUND PROCESSING SYSTEM

An advanced conferencing solution designed for optimal audio clarity and ease of use, empowering teams to consult, discuss, and make informed decisions effortlessly.



NE-DSP0808 DIGITAL AUDIO SIGNAL PROCESSOR

- Adopt ADI SHARC super Harvard architecture, 40-bit DSP high-speed floating-point operation engine processing chip;
- Provides semi-open architecture and open user interface to achieve integrated management of multiple devices;
- Equipped with 160×32 LCD display, 24-bit D/A conversion, 96KHz sampling frequency;
- Analog input ≥ 8 (each channel has 48v phantom power)
- Analog output ≥ 8
- VoIP Ports
- Configurable signal processor
- AEC processing channels for automatic gain control and noise cancellation ≥ 8
- ≥ 48 channels, low latency, fault-tolerant digital audio bus
- Front panel with LED indicator
- Bidirectional positioning function
- Control input ≥ 12 channels and GPIO integrated logic output ≥ 6 channels
- Interface kit available for third-party control system integration
- Software for configuration, control and monitoring
- Equipped with 8 independent adaptive feedback suppressions, each channel has 16 points of adaptive feedback suppression (AFC) function;
- The input channel has 12-band PEQ and provides five filter types to choose from;
- The input channel has adaptive echo cancellation (AEC) and noise suppression (ANS) functions;
- The input channel has functions such as gain sharing automatic mixing (AMC), threshold automatic mixing (Gate Mixer), automatic gain (AGC), ducker (Ducker), noise gain compensator (ANC), etc.
- The output channel has 12-band PEQ, 31-band GEQ, crossover, delay, and limiter;
- Built-in signal generator with sine wave signal, pink noise and white noise;
- Supports 16 groups of scenes preset functions, each preset scene works independently and can be called through the control panel, TCP/IP, RS-232, RS-485 protocol;
- Support channel copy, input/output channel LINK and grouping functions;
- With A/D dynamic range $> 113\text{dB}$, D/A dynamic range $> 115\text{ dB}$;
- Frequency response is $20\text{Hz} \sim 20\text{kHz}$ ($\pm 0.2\text{dB}$);
- Total harmonic distortion (THD+N) $< 0.005\%$ @ 1kHz , $+4\text{dBu}$;
- Full-function matrix mixing (delay matrix), input mixing level adjustable;
- Built-in automatic identification USB interface sound card, supports local recording and remote conferencing in various occasions;
- It has the function of camera tracking control, and can realize automatic camera linkage function through preset positions;
- Compatible with Windows/Android/Ios full operating platform control interface, wireless WiFi control;
- Equipped with 8 sets of GPIO general-purpose input/output digital signal control ports, which can be used as an independent ADC;
- Supports online device detection, all devices are displayed online, and multiple devices can be managed online at the same time;
- Equipped with 1 TCP/IP /RJ45 communication port, 2 Dante interfaces, 1 RS-232 communication port, 1 RS-485 communication port, open to third-party control protocols;
- With RS232/485 central control function, you can control third-party devices by filling in the code on this machine;
- Supports UDP and RS-232/485 dual central control, UDP port can be freely set, and control software can view control code.

TECHNICAL PARAMETERS

model	NE-DSP0808
Working power supply	AC100~240VA, 50/60 Hz
Audio Input	8 balanced inputs, Phoenix interface
Input Level	0dBu line or -40 dBu mic level
Input Quantization	96KHz/24bit
Dynamic Range	110dB
Input Impedance	9.5kΩ
Input Gain	54dB
Frequency Response	20Hz—20KHz (±0.5dB)
Phantom Power	DC 48V
Channel isolation	100dB@1KHz, +20dBu
Sampling rate	96KHz
Audio Output	8 balanced line level, Phoenix interface
DSP Frequency	80 MHz
A/D Dynamic Range	114dB
Output Impedance	102dB
Output Quantization	48KHz/24bit
Maximum output	20dBu
Total Harmonic Distortion	≤ 0.005%@1KHz, +4dBu
Equivalent input noise	-128dB (20Hz-20KHz, A-weighted)
Gain	-97.5 dB - +30.5 dB (0.5 dB)
Minimum load impedance	600Ω
USB interface	Yes, directly connect to the sound card
color	black

Disclaimer: Product specifications and images are subject to change without prior notice due to ongoing development and upgrades.



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