



Feature:

1. 8-in/8-out Digital Audio Processor: 8-channel balanced analog input channels, 8-channel balanced analog output channels
2. High-Performance DSP: Built-in ADI SHARC processor with 400MIPS DSP processing capability
3. Advanced Audio Processing: Provides core processing functions including AFC (Acoustic Feedback Control), AGC (Automatic Gain Control), AEC (Acoustic Echo Cancellation), AM (Automatic Mixing), and ANS (Ambient Noise Suppression)
4. Control Interfaces: One RJ45 Ethernet port and one RS232 interface, supporting central control system integration
5. Built-in USB Audio Interface: Supports music playback, recording, and software video conferencing applications
6. Independent Feedback Suppression: Per-channel feedback suppression using notch filter algorithm
7. Built-in Signal Generator: Sine wave, pink noise, and white noise generation
8. Input Channel Processing: Each input channel features adjustable sensitivity, +48V phantom power, phase inversion, mute, expander, compressor, AGC, 8-band parametric EQ, and feedback suppression
9. Output Channel Processing: Each output channel features high-pass/low-pass filters, 8-band parametric EQ, delay, limiter, phase inversion, and mute controls
10. Open Control Protocol: Supports third-party control via UDP and RS-232 commands
11. Scene Management: Supports saving and recalling up to 16 preset scenes
12. Channel Management: Supports channel parameter copy/paste, channel linking, and group settings
13. User Interface: Supports custom UI editing and multi-panel link control

Specification:

Parameter	Specification
Processor	ADI SHARC 21489
Sample Rate / Bit Depth	48 kHz / 24-bit
Analog I/O Channels	8 × 8
Input Gain	0 / 6 / 12 / 18 / 24 / 30 / 36 / 42 / 48 dB
Phantom Power	+48V / 10mA max
Frequency Response	20 Hz – 20 kHz ±0.5 dB
Maximum Output Level	+18 dBu
THD+N	0.002% @ 4 dBu
Input Dynamic Range	110 dB
Output Dynamic Range	110 dB
Channel Crosstalk @ 1 kHz	108 dB
Input Impedance (Balanced)	5.4 kΩ
Output Impedance (Balanced)	600 Ω
System Latency	< 3 ms
Power Supply	AC 220V, 50 Hz
Dimensions (W × D × H)	482 × 200 × 45 mm
Shipping Weight	3 kg