Digital Audio Processor [4R+4C]/[8R+8C]/ [16R+8C]/[16R+16C]

VM-X0404P/VM-X0808P/VM-X1608P/VM-X1616P



VM-X0404P



VM-X0808P

Functional description :

1. Supports 4 balanced microphone/line input channels (1/8/16), featuring bare-wire terminals with balanced connections.
2. Supports 4/8/16-channel balanced line outputs with bare-wire terminals for balanced connections;
3. Processor: ADI SHARC 21489 @ 450 MHz SIMD;
4. DSP processing capability: 400 MIPS, 1.6 GFLOPS;
5. Sampling rate: 48 kHz, ±100 ppm;
6. 24-bit/48kHz AD/DA conversion rate;
7. Input channels support 48V phantom power, feature at least 9 sensitivity switch buttons, and support phase reversal and mute functions.
8. Input channel gain range: -72 to 12 dB, with customizable minimum and maximum values within this range;
9. Built-in signal generator in the input channel supports transmission of three test signals: sine wave, white noise, and pink noise.
10. The input channel features eight independent feedback suppression points utilizing a notch filter algorithm, with a notch transmission gain of 24dB.
11. Both input and output channels support 8-band PEQ British-style parametric equalization, with each PEQ band offering 5 filter options;
12. Input channels feature: preamplifier signal amplification, parametric equalization, expander, compressor, AGC automatic gain control, AM automatic mixing (gain-sharing type), AFC adaptive feedback cancellation, AEC echo cancellation, ANC noise suppression, and audio matrix.
13. Output channels feature: parametric equalizer, crossover (high-pass/low-pass filter), delay unit (1200ms), limiter;
14. Both input and output channels support LINK and grouping functions, enabling channel copy, paste, and linked control capabilities.
15. Features one USB port with a built-in USB player supporting one input and one output, enabling music playback, recording, and software-based video conferencing (e.g., ZOOM, Tencent Meeting, DingTalk Meeting, etc.).
16. Features a 4×4 input/output audio matrix switching function, enabling processed audio signals to be output via the matrix (USB, auto-mixing, echo cancellation, noise suppression), achieving an 8×5 routing matrix.
17. Features 16 scene presets;
18. Features a single bidirectional RS232 interface with central control functionality, enabling comprehensive management of power supply, signal switching, environmental control, audio, and other system components. This allows for one-touch activation of required system functions and can also be integrated into a central control system for unified management.
19. Features one Ethernet multipurpose data transmission and control port, supporting browser-based device access and download of built-in software for management and control, enabling real-time management of single or multiple devices.
20. Supports automatic memory protection upon power loss;
21. Supports simultaneous online operation of up to 8 devices;
22. Supports operation control via mobile/tablet apps for iOS, iPad, and Android devices; enables customization of the end-user interface; supports management of up to 30 devices through a single interface.
23. Supports optional channel signal indicators for real-time monitoring of channel status;
24. Supports optional 2.23-inch OLED display capable of showing device name, IP address, real-time level, firmware information, and MAC address;

Technical specifications:

Frequency Response	20～20KHz（±0.15dB), THD+N: -94dB @17dBu			
THD+N	0.002% @1KHz, +4dBu			
Input Sensitivity Steps	0/6/12/18/24/30/36/42/48 dB			
Phantom Power	+48V/10mA max			
Max Level	+18dBu			
Channel Separation @1KHz	108dB			
Input Impedance (Balanced)	5.4KΩ			
Output Impedance (Balanced)	600Ω			
System Latency	<3ms			
Power Supply	AC220V,50Hz/60Hz			
Dimensions (W×D×H)	482*200*45mm			
Weight	2.7KG	3KG	3KG	3.5KG
Power Consumption	20W			