

VM-X0804D/VM-X0808D/VM-X0812D/VM-X1208D
VM-X1212DP/VM-X1608D/VM-X1212D/VM-X1616D



VM-X0804D



VM-X1208D



VM-X1616D



VM-X0808D



VM-X1212DP/VM-X1212D



VM-X0812D



VM-X1608D

Product Overview

The X Series DSP processor adopts 450MHz ADI SHARC 21489 chip with powerful 400 MIPS processing capacity, supporting configurable analog/Dante I/O channels and 48kHz/24-bit high-precision audio conversion.

It integrates full audio algorithms including AFC, AEC, ANC, auto-mixing, multi-mode PEQ/GEQ, feedback suppression and up to 1200ms delay. Equipped with dual redundant Dante ports, USB media player, GPIO, RS232/485 and Ethernet, it realizes camera tracking, central control linkage and online multi-device management.

Supporting 16 scene presets, power-off memory, mobile APP control and customized UI, it delivers stable redundant audio transmission, perfectly matching conference, lecture hall and multi-function venue audio system deployment.

Suitable for applications including:

- ✓ Large & medium multi-functional conference centers
- ✓ Government command meeting rooms
- ✓ Campus lecture halls and training classrooms
- ✓ Hotel banquet halls and meeting spaces
- ✓ Enterprise exhibition halls and multimedia showrooms
- ✓ Theater, auditorium and stage performance venues
- ✓ Smart campus multimedia classrooms
- ✓ Church worship halls and activity venues
- ✓ High-end commercial exhibition centers
- ✓ Medical and military multimedia meeting rooms





Digital Audio Processor

VM-X0804D/VM-X0808D/VM-X0812D/VM-X1208D
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Key Features

1. Powered by 450MHz ADI SHARC 21489 DSP chip with 400 MIPS / 1.6 GFLOPS computing power, supporting 24-bit/48kHz high-precision audio conversion. Configurable balanced analog and Dante network input/output channels via terminal blocks.
2. Full built-in audio algorithms: AEC echo cancellation, ANC noise suppression, AFC feedback suppression, auto mixing, dual-mode PEQ/GEQ, compressor, limiter, 1200ms delay and signal test generators.
3. Dual redundant Dante network ports for seamless audio failover; one Ethernet management port for web access and multi-device batch control.
4. Rich control interfaces: bidirectional RS232 for central control, RS485 for camera tracking, 8 programmable GPIO, front USB for media playback and video conference audio.
5. Supports 16 scene presets, power-off memory, channel grouping/copying, and up to 8 devices online working simultaneously.
6. Cross-platform mobile APP control for iOS & Android with customizable operation UI, capable of managing up to 30 devices on one interface.
7. Standard 1U rack-mounted metal chassis; optional OLED display and channel signal indicators for real-time working status monitoring.

Technical specifications

Frequency Response	20~20KHz ($\pm 0.15\text{dB}$), THD+N: -94dB @17dBu
THD+N	0.002% @1KHz, +4dBu
Input Sensitivity Steps	0/3/6/9/12/15/18/21/24/27/30/33/36/39/42/45/48 dB
Phantom Power	+48V/10mA max
Max Level	+18dBu
Channel Separation @1KHz	108dB
Input Impedance (Balanced)	5.4K Ω
Output Impedance (Balanced)	600 Ω
System Latency	<3ms
Power Supply	AC220V,50Hz/60Hz
Dimensions (W×D×H)	482*260*45mm
Weight	3.5KG
Power Consumption	20W