

SERENIX PROFESSIONAL AUDIO

SR-CM02-DSP

Digital audio signal processor — the cascade hub and DSP engine for the SR-CM02 microphone array.

SR-CM02-DSP is a professional digital audio signal processor built on dedicated embedded architecture for precise, low-latency volume control and mixing. It cascades up to 6 SR-CM02 digital microphone inputs plus 4 linear inputs over simple PoE, USB and Phoenix-terminal wiring, and applies a full audio-processing suite — automatic noise suppression, gain control, echo cancellation, equalization and intelligent microphone mixing — to keep conferencing audio clear. It also converts Dante network audio to analogue output and provides an extended wireless microphone input.



6 CASCADED MIC INPUTS	4 LINEAR INPUTS	4 LINEAR OUTPUTS	100% FULL-DUPLEX ECHO CANCELLATION	20Hz–20kHz FREQUENCY RESPONSE
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FEATURES

- 01 Professional digital processing**
Dedicated chips and embedded architecture give precise volume control, high efficiency and low latency for a safer, more stable, more reliable system.
- 02 Advanced audio algorithms**
Integrated ANS, AGC and AEC alongside automatic equalization, intelligent microphone mixing and anti-reverberation processing.
- 03 Flexible cascade & I/O**
Up to 6 cascaded microphone inputs plus 4 linear inputs, with support for extended wireless microphones, 4-way linear output and USB audio.
- 04 Simple PoE deployment**
Standard PoE powers digital microphones over RJ45, USB or linear audio wiring — plug-and-play with strong anti-interference over long runs.

SPECIFICATIONS

Echo cancellation	100% full-duplex AEC
Frequency response	20 Hz – 20 kHz
Network interface	1x uplink LAN; 1x downlink cascaded DMIC, up to 6 levels
USB interface	1x device port (USB audio device to PC/host); 1x host port (connect USB devices)
Audio interface	4x input Phoenix terminal, unbalanced linear in; 4x output Phoenix terminal, unbalanced linear out
Power interface	DC 12V
Power	DC 12V / 3A
PoE	48V power supply, supports IEEE 802.3at
Dante conversion	Converts Dante network input to analogue audio output
Mic control	Front-panel mute/unmute button with LED indicator

CAPABILITIES

- Converts Dante network audio input to analogue output
- Intelligent microphone mixing with automatic gain and equalization
- Supports extended wireless microphone inputs
- Front-panel mute/unmute button with LED status indicator

HIGHLIGHTS

- Cascades up to 6 SR-CM02 microphone levels over standard PoE / RJ45 wiring
- USB device and host ports for PC integration and peripheral connection
- Low-latency embedded DSP architecture for stable, reliable performance

APPLICATIONS

- Conference Rooms
- Boardrooms
- Auditoriums
- Huddle Spaces
- Distance Learning