



16x16 Audio Processor with Dante

This digital audio processor is typically used for video conferences, distant learning, and telemedicine. It features 12-ch MIC/linear inputs and 12-ch linear outputs. Two DANTE ports are also provided to ensure low latency in the audio processor. The product can process audio signals with algorithms, such as full-band Adaptive Echo Cancellation (AEC), Adaptive Noise Suppression (ANS), Automatic Gain Control (AGC), and Auto Mixer, to output a clear, clean, and resonant sound with high Signal-to-Noise ratio.

Concise but intelligent, the processor is designed to be applied in scenarios without additional software assistance for debugging. It is ready to use after installation and is perfect for project implementation and testing. The product can be applied in a diverse range of installations and applications across industries, such as smart system integration in small-medium sized conference rooms, instruction recording and distance teaching in education, court trial recording and virtual court trial in the judiciary, surgery recording and video consultation in healthcare service, and command center establishment

Feature Highlights

- Provide 12-ch balanced MIC/linear inputs and 12-ch balanced linear outputs
- Provide two standard DANTE network audio interfaces
- Support adaptive feedback suppression function
- Support the full-band adaptive acoustic echo cancellation technology
- Dynamic adaptive noise reduction technology is provided to reduce noise with signal level up to 18dB
- Auto Mixer function is provided to set the order of priority when multiple microphones are input at one time
- Inclusive of Digital signal processing modules such as Expander, Equalizer, Compressor, Auto Gain Control, Limiter, High Pass Filter, Low Pass Filter and Delay
- Capable to switch matrix routings
- Support volume control, meter, group management, scene control, etc.
- 48V phantom power supply for 12-ch MIC inputs
- 48KHz sampling rate, 24-bit for A/D or D/A conversion
- Support 8-ch programmable GPIO function
- Compatible to run on Win 7 and Win 10, with standard RJ45 interface control
- Support RS-232 serial commands control

TECHNICAL

Amplitude-frequency (20Hz~20KHZ@+4dBu)	±0.2dB
THD+N (1KHZ@+4dBu)	≤ 0.01%
SNR (linear input)	≥ 90dB
Dynamic Range	≥ 100dB
Channel Level Difference	±0.5dB
Channel Isolation	≥ 80dB
Max Input Level	20dBu
Max MIC Gain	40dB
Input Impedance	20KΩ
Output Impedance	300Ω
Sampling Frequency	48KHZ
A/D and D/A Conversion	24Bit
Phantom Power	+48 VDC

CONNECTIONS

Input:	12 × Balanced MIC/LINE [3-pin phoenix connector] or 6 × Stereo Audio [3-pin phoenix connector]
Output:	12 × Balanced LINE [3-pin phoenix connector] or 6 × Stereo audio [3-pin phoenix connector]
Control:	1 × LAN [RJ45] 1 × RS-232 [3-pin phoenix connector] 8 × GIPO [10-pin phoenix connector]
Digital Audio Interfaces	2 × Dante [RJ45]

MECHANICAL

Housing	Metal Enclosure
Color	Black
Dimension	440mm (W)×250mm (D)×45mm (H)
Weight	3.37kg
Power Supply	AC 100 - 240V 50/60Hz
Power Consumption	11W (Max)
Operation Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Relative Humidity	20~90% RH (non-condensing)

Classic Application Example

