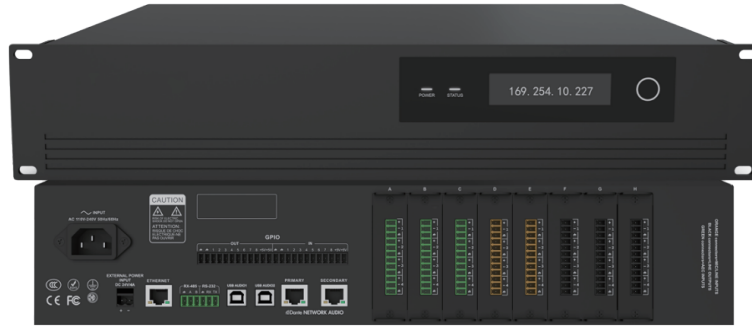


COP 8000I

Open-type audio processing host



AEC

Features

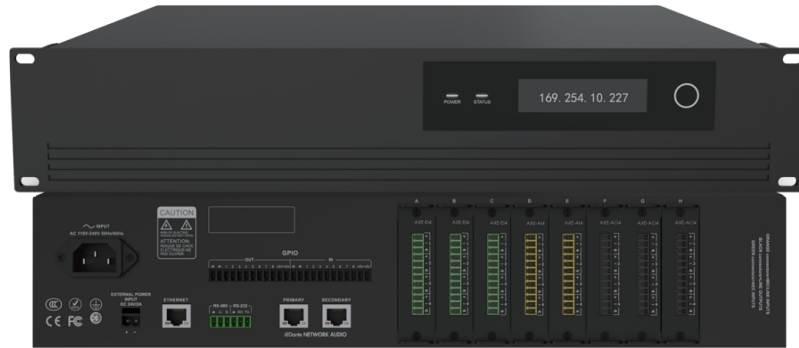
- Equipment type: Optional board plug-in audio processing server;
- Drag-and-drop DSP module (non-fixed), drag-and-drop interface, unified management;
- This machine has ≥ 3 expandable card slots, and can be equipped with 4-channel microphone/line input card, 4-channel line output card, 4-channel AEC (acoustic echo cancellation) microphone/line input card, 2-channel analog phone card, 2-channel VOIP card, 2x2USB sound card;
- Input and output of this machine: ≥ 20 AEC inputs;
- Transmission method: equipped with dual network hot backup transmission;
- Network channel capacity: $\geq 128 \times 128$ channels; Network audio protocol: Dante;
- AEC channel: local ≥ 20 channels, supports adding AEC card, can support ≥ 80 channels of AEC;
- Audio playback: Built-in 16-channel player, supports MP3 and WAV audio files;
- Dante network channels: 128x128 channels of Gigabit network transmission with network transmission backup;
- AEC: Supports custom addition of independent AEC modules, with a maximum of 16 independent AEC;
- Dual-host backup (mirror/ hot backup) mode;
- Playback/recording: 4-channel audio playback supports timed playback of WAV and MP3, and 1-channel lossless recording;
- Built-in white noise, pink noise and other signal generators;
- Graphical Chinese user interface that can be edited as needed, supporting control on the software side, web side, and mobile side. Built-in Lua script;
- provides flexible expansion and customization functions. Dual power supply redundancy (AC/DC);

Specifications

Audio/IO capacity	6 audio/IO card slots	Signal-to-noise ratio	< -112 dB
USB storage capacity	64G	THD + N	$\leq 0.002\%$
Audio/IO capacityDante network channel capacity	128 × 128	Common mode rejection ratio (@ 0 dBr)	> 91 dBu
		Maximum input level (@ 1% distortion)	+ 22 dBu
Number of DANTE input and output channels	64x64	Dante Primary	RJ45 1000 Mbps
Dynamic range	> 118 dB	Dante Secondary	RJ45 1000 Mbps
Frequency response (± 0.2 dB)	20 Hz to 20 kHz	Voltage	220 VAC – 240 VAC, 50 Hz
Phantom power	+48V/10mA max	AC main power supply	IEC connector
Frequency response	(20~20kHz): ± 0.3 dB	Product dimensions (width × height × depth)	483 × 88 × 364 mm
Input impedance	5.5 k Ω	Transport weight	8.5 KG

COP 8000II

Open-type audio processing host



AEC

Features

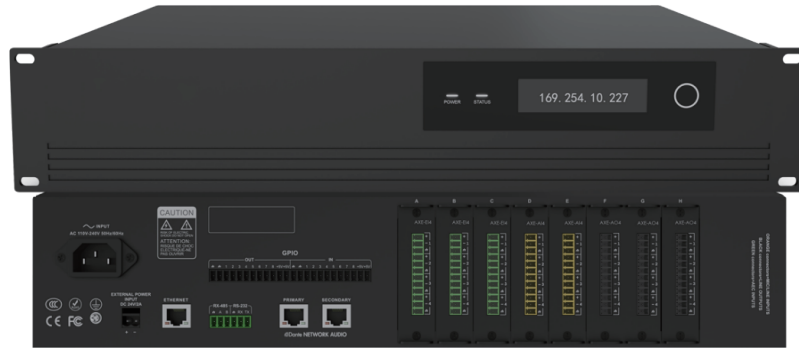
- Equipment type: Optional board plug-in audio processing server;
- Drag-and-drop DSP module (non-fixed), drag-and-drop interface, unified management;
- This machine has 8 I/O card slots, with optional 4-channel microphone/line input card, 4-channel line output card, and 4-channel AEC (acoustic echo cancellation) microphone/line input card;
- Maximum number of analog channels: 32
- Transmission method: equipped with dual network hot backup transmission;
- Network channel capacity: 64*64; Network audio protocol: Dante;
- AEC channel: supports adding AEC card, supporting ≥ 48 channels of AEC;
- Feedback suppressor: ≥ 64 channels;
- Control port: supports 16 GPIO channels and 1 universal serial port RS-232;
- Network port: 1 Gigabit network port;
- Dante network channels: 64x64 channels of Gigabit network transmission with network transmission backup;
- AEC: Supports custom addition of independent AEC modules, with a maximum of 16 independent AEC;
- Dual-host backup (mirror/ hot backup) mode;
- Playback/recording: 4-channel audio playback supports timed playback of WAV and MP3, and 1-channel lossless recording;
- Built-in white noise, pink noise and other signal generators;
- Graphical Chinese user interface that can be edited as needed, supporting control on the software side, web side, and mobile side. Built-in Lua script provides flexible expansion and customization functions. Dual power supply redundancy (AC/DC);

Specifications

Audio/IO capacity	6 audio/IO card slots	Signal-to-noise ratio	< -112 dB
USB storage capacity	64G	THD + N	$\leq 0.002\%$
Dante network channel capacity	64 × 64	Common mode rejection ratio (@ 0 dBr)	> 91 dBu
Dynamic range	> 118 dB	Maximum input level (@ 1% distortion)	+ 22 dBu
Frequency response (± 0.2 dB)	20 Hz to 20 kHz	Dante Primary	RJ45 1000 Mbps
DC backup power supply	24 VDC 4A 2-pin 5.81mm Phoenix block	Dante Secondary	RJ45 1000 Mbps
		Voltage	220 VAC – 240 VAC, 50 Hz
Current	Maximum 4A – 100A	AC main power supply	IEC connector
Information screen	3.12-inch flip display screen	Product dimensions (width × height × depth)	483 × 88 × 364 mm
Input impedance	5.5 k Ω	Transport weight	8.5 KG

COP 8000III

Open-type audio processing host



AEC

Features

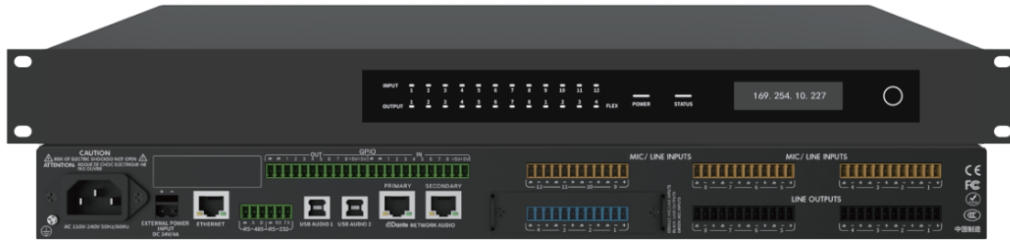
- Equipment type: Optional board plug-in audio processing server;
- Drag-and-drop DSP module (non-fixed), drag-and-drop interface, unified management;
- This machine has 8 I/O card slots, with optional 4-channel microphone/line input card, 4-channel line output card, and 4-channel AEC (acoustic echo cancellation) microphone/line input card;
- Maximum number of analog channels: 32
- Transmission method: equipped with dual network hot backup transmission;
- Network channel capacity: 32*32; Network audio protocol: Dante;
- AEC channel: supports adding AEC card, supporting ≥ 48 channels of AEC;
- Feedback suppressor: ≥ 64 channels;
- Control port: supports 16 GPIO channels and 1 universal serial port RS-232;
- Network port: 1 Gigabit network port;
- Dante network channels: 32x32 channels of Gigabit network transmission with network transmission backup.
- AEC: Supports custom addition of independent AEC modules, with a maximum of 16 independent AEC.
- Dual-host backup (mirror/ hot backup) mode.
- Playback/recording: 4-channel audio playback supports timed playback of WAV and MP3, and 1-channel lossless recording.
- Built-in white noise, pink noise and other signal generators.
- Graphical Chinese user interface that can be edited as needed, supporting control on the software side, web side, and mobile side. Built-in Lua script provides flexible expansion and customization functions. Dual power supply redundancy (AC/DC).

Specifications

Audio/I/O capacity	6 audio/I/O card slots	Signal-to-noise ratio	< -112 dB
USB storage capacity	64G	THD + N	$\leq 0.002\%$
Dante network channel capacity	32 × 32	Common mode rejection ratio (@ 0 dBr)	> 91 dBu
Dynamic range	> 118 dB	Maximum input level (@ 1% distortion)	+ 22 dBu
Frequency response (± 0.2 dB)	20 Hz to 20 kHz	Dante Primary	RJ45 1000 Mbps
DC backup power supply	24 VDC 4A 2-pin 5.81mm Phoenix block	Dante Secondary	RJ45 1000 Mbps
		Voltage	220 VAC – 240 VAC, 50 Hz
Current	Maximum 4A – 100A	AC main power supply	IEC connector
Information screen	3.12-inch flip display screen	Product dimensions (width × height × depth)	483 × 88 × 364 mm
Input impedance	5.5 k Ω	Transport weight	8.5 KG

COP 128

Open-type audio processing host



AEC

Features

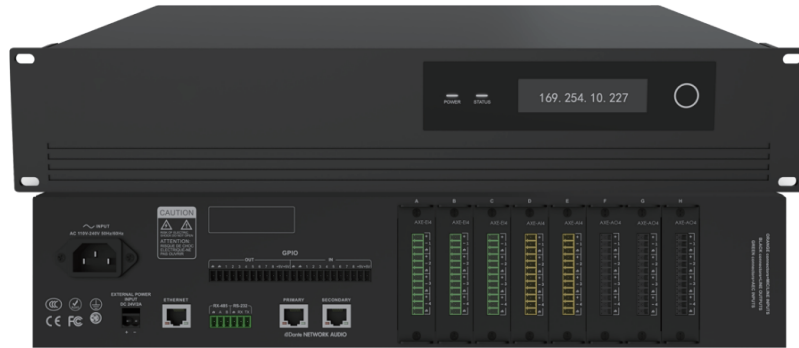
- Equipment type: audio processing server;
- Drag-and-drop DSP module (non-fixed), drag-and-drop interface, unified management;
- 12 microphone/line level analog audio inputs, 8 line level analog audio outputs;
- Supports customization of 4 line level analog input/output channel cards, with a maximum of 16 inputs and 8 outputs or 12 inputs and 12 outputs;
- USB channel: Dual USB interface, supports two computers to be used at the same time, with a maximum of 4 inputs and 4 outputs;
- Audio playback: built-in 4 multi-track players, supports scheduled playback, parallel 16-track playback, supports MP3 and WAV audio files, media storage capacity: supports ≥64G;
- Network channel: 128×128 Dante network channel, supports the number of streams 128*128;
- AEC channel: up to 12 assignable and routable AEC processor modules;
- Feedback suppressor channel: 144 channels;
- Control port: supports 8 GPI and 8 GPO channels, 1 RS-232 interface, 1 RS-485 interface;
- Dynamic range: ≥118dB;
- Total harmonic distortion: ≤0.002%;
- User interface: The graphical Chinese user interface can be edited as needed;
- Power supply: built-in universal power module and 24V 4A DC external power supply, dual power supply backup;
- The front panel has input and output signal indicators, OLED display, and touch page turning buttons;

Specifications

Processor	ADI SHARC 21569	Channel isolation	108dB
Sampling rate/number of quantization bits	48K/24bit	Input impedance (balanced connection)	5.4KΩ
Input gain	0/4/12/18/24/30/36/42/48dB/54dB	Output impedance (balanced connection)	600Ω
		System delay	<5ms
Phantom power	+48V/10mA max	Working power supply	AC 100–240V, 50/60Hz and DC24V 4A
Frequency response (20–20kHz)	±0.3dB		
Maximum level	+22dBu	Dante Primary	RJ451000Mbps
THD+N	≤0.002%	Dante Secondary	RJ451000Mbps
Input dynamic range	118dB	Product dimensions (width × height × depth)	482 × 260 × 45mm
Output dynamic range	118dB	Information screen	2.08–inch flip display

COP 8000IO

Open-type interface machine



AEC

Features

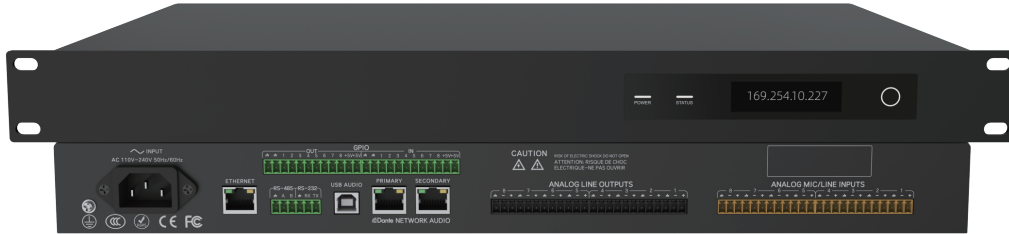
- Equipment type: network interface, digital-to-analog/analog-to-digital conversion;
- This machine has 8 I/O card slots, with optional 4-channel microphone/line input card, 4-channel line output card, and 4-channel AEC (acoustic echo cancellation) microphone/line input card;
- Maximum number of analog channels: 32;
- Transmission method: equipped with dual network hot backup transmission;
- Network channel capacity: 32*32; Network audio protocol: Dante;
- AEC channel: supports adding AEC card, supporting ≥ 48 channels of AEC;
- Control port: supports 16 GPIO channels and 1 universal serial port RS-232;
- Network port: 1 Gigabit network port;
- High quality 24bit analog/digital and digital/analog converters;
- Rich and flexible optional channel configurations;
- Dual network backup;
- Transmit with Gigabit network hardware and protocols;
- GPIO control capability;
- Dual power supply redundancy (AC/DC);

Specifications

Frequency response (20Hz-20kHz @+4dBu)	± 0.02 dB	Axe-VoIP4	4-channel IP voice card
THD+N	0.001%	AC main power	IEC connector
EIN	< -135 dB	Front panel indicator light	Power light
Dynamic range	118dB	Voltage	220VAC-240VAC, 50HZ
Power supply	100W	Front panel control	Touch information control button
Network channel capacity	32x32		
Audio I/O capabilities	8 audio I/O card slots	Product size (width x height x depth)	483x88x364mm
Configure audio//O card Ax-A14	microphone/line input card	Shipping weight	10KG
Ax-AO4	line output card	Dante Primary	RJ451000Mbps
Ax-USB2	2x2USB sound card	Dante Secondary	RJ451000Mbps

COP 16 IO

Open-type interface machine



Features

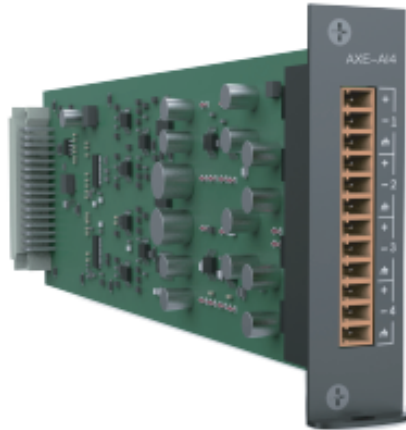
- It can be used as a processor and is on the same stage as the audio information processing server;
- High-quality 24-bit analog/digital and digital/analog converters;
- Highly integrated integrated design;
- Dual network backup uses Gigabit network hardware and protocols to transmit GPIO control capabilities;

Specifications

Equipment type	Network DSP interface	Voltage	110VAC–240VAC, 50–60Hz
Network channel	8x8	Common mode rejection ratio	>91dBu
Dynamic range	>118dB	AC mains	IEC connector
Frequency response (± 0.2 dB)	20Hz–20kHz	RS232/485	pin 3.81mm Phoenix socket
Channel crosstalk	<–112dB	GPIO	16pin 3.81mm Phoenix socket
THD+N	$\leq 0.002\%$	Front panel controls	touch-sensitive information control buttons
Maximum input and output	+22dBu		
Dante Primary	RJ45 1000Mbps	USB channel	2x2
Dante Secondary	RJ45 1000Mbps	Product size (width x height x depth)	491x44x291mm
Information screen	2.08-inch page-turning display	BTU/hour	450 (estimated under load)

CO AI4

4-channel microphone/line input card



Features

- The analog input card provides 4-channel microphone/line input, +48V phantom power, -100~+24dB level control range and -58~+4dBu gain control (adjustable in 6dB increments) using plug-in balanced input;
- Controls for each input include: gain level control, mic preamp, mute, and signal inversion;
- Supports 4-channel microphone/line level analog audio signal input and provides 48V phantom power supply;

Specifications

Frequency response	±0.02dB	Input impedance	5.5KΩ
Dynamic range	118dB	THD+N	≤0.001%
Maximum input level	+22dBu/-10dBv optional	Interface	12pin 3.56mm European style separate terminal
Input gain range (6dB steps)	0-54dB		

CO USB2

USB 2channel



Features

- The USB sound card is used for system access to USB-type signals and can be used for recording, video conferencing, and test signal input, It has a level adjustment range of $-60\sim 0\text{dB}$ with support for connection status display;
- The two USB interfaces facilitate connection with PCs or other USB-type devices;
- Equipped with a quick installation interface;
- Control and configuration can be done through software;

Specifications

Sampling rate	48kHz	Quantization bit depth	24-bit
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AO EI4

4-channel AEC microphone/line input card



Features

- The AEC input card provides 4-channel AEC (Acoustic Echo Cancellation) function, phantom power, 84dB gain level and 58dB microphone preamp function;
- Provides AEC wide-band processing, tail time up to 300ms;
- Each channel of the AEC input card has independent inputs and direct outputs for local sound reinforcement;
- Supports 4-channel microphone/line level analog audio signal input and provides 48V phantom power supply;
- 4 channels of 300ms AEC echo cancellation processing, which does not occupy host processing resources;

Specifications

Frequency response	$\pm 0.02\text{dB}$	Input impedance	5.5K Ω
Dynamic range	118dB	THD+N	$\leq 0.001\%$
Maximum input level	+22dBu/-10dBv optional	Interface	12pin 3.56mm European style separate terminal
Input gain range (6dB steps)	0-54dB		

CO AO4

4 channel line output card



Features

- Analog output card provides 4-channel line output;
- Using plug-in connector, electronically balanced output;
- Controls for each output include gain level and mute controls;
- Supports 4-channel balanced line level output card;

Specifications

Frequency response	$\pm 0.02\text{dB}$	Output impedance	102Ω
Dynamic range	118dB	THD+N	$\leq 0.001\%$
Noise floor (A-weighted)	-94dBu	Interface	12pin 3.56mm European style separate terminal
Maximum output level	+22dBu/-10dBv optional		
Crosstalk (0dB gain, @1kHz)	-112dB		