DSP9273

Intelligent Audio Processor

Description

The enhanced interactive digital audio processor is an audio processor suitable for local education and remote interactive education. It features excellent digital audio processing technology, including full-band adaptive echo cancellation, automatic noise reduction, intelligent mixing, and automatic microphone switching as its core audio processing capabilities.

Features

- 8 balanced microphone inputs with 48V phantom power, using Phoenix connectors.
- 4 balanced line inputs, using Phoenix connectors.
- 6 balanced line outputs, using Phoenix connectors.
- 3.5mm wireless microphone interface.
- 3.5mm headphone monitoring interface.
- One-key factory reset support.
- Sampling rate of 48kHz, A/D and D/A conversion, 24-bit.
- Ethernet interface for software settings/control.
- Serial interface for third-party RS-232 remote control.

Specifications

Model		DSP9273
Echo Cancellation Tail Length		≥512ms
Echo Cancellation Amplitude		≥70dB
Convergence Speed		≥65dB/S
S/N Ratio		≥100dB
Signal Processing Delay		<8ms
Mean Time Between Failures (MTBF)		≥60000 hours
Frequency Response		20Hz~20kHz @ +4dBu
	MIC	+0/-2dB
	LINE IN	+0/-0.5dB
THD +N		1kHz @ +4dBu
	MIC	< 0.009%
	LINE IN	< 0.007%
Equivalent Noise		< -84dBu(20Hz~20kHz@22dB)

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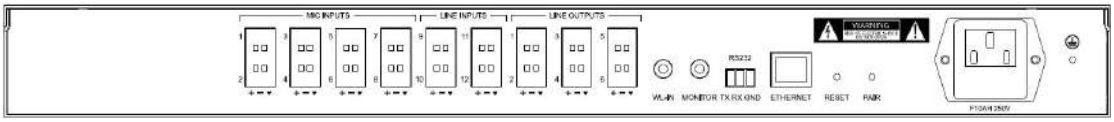
Dynamic Range		> 105dB(20Hz~20kHz@0dB)
Maximum Input Level	MIC	-2dBu
	LINE IN	20dBu
Maximum Output Level (Balanced)		20dBu
Maximum Gain	MIC	50dB
	LINE IN	0dB
Input Impedance	MIC	2.2kΩ
	LINE IN	20kΩ
Output Impedance		400Ω

Front / Rear Panel

Front Panel

Indication, Interface, and Knob	Function Description
POWER button	Power switch.
POWER indicator	Power indicator light, normally on when the power is turned on.
RUN indicator	Running indicator light, slow flashing indicating normal operation.
NETWORK indicator	Network connection indicator light, normally on when connected to a PC control terminal via the network.

Rear Panel



Indication, Interface, and Knob	Function Description
MIC (1-8)	8 balanced microphone input connectors, supporting 48V phantom power, suitable for connecting omnidirectional, directional hanging microphones or boundary microphones.
AUDIO (9-10)	2 (left and right channels) line input connectors, typically used for connecting local audio sources such as DVD players, computers, etc.
AEC-REF (11-12)	2 (left and right channels) line input connectors, typically used in interactive and distance learning to receive signals coming from the far end, i.e., reference signal inputs.
MIX (1-2)	2 (left and right channels) line output connectors, typically used for connecting external recording devices.
AEC-OUT (3-4)	2 (left and right channels) line output connectors, typically used in interactive and distance learning to send microphone-captured audio and computer audio to the far end, i.e., reference signal outputs.
SPEAK (5-6)	2 (left and right channels) line output connectors, typically used for

	connecting external amplifiers or active speakers for local sound amplification.
WL-IN	3.5mm wireless microphone interface.
MONITOR	3.5mm headphone monitoring interface.
RS232	Serial control interface, connected to a control terminal.
ETHERNET	RJ45 connector, connected to a configuration computer.
RESET	Restore factory settings button, press and hold for 3s to restart the device and restore factory settings.
PAIR	Reserved remote debugging pairing button.
Power Port	F10AH 250V, 100-240VAC 50/60Hz.