

WeGem 0808 DSP Overview

The WebGem 0808 DSP from Tendzone presents a comprehensive suite of versatile audio DSP tools designed specifically for AV integrators. WeGem 0808 DSP has eight analog audio input channels and eight analog audio output channels.

Tendzone's user-friendly Web-UI interface, the DSPs support standard bidirectional control via RS-232, TCP/IP, and GPI, making them compatible with popular third-party control systems. For local room control, users can create a custom web control interface that operates across various platforms, including Windows, iOS, macOS, and Android.

Tendzone WebGem series delivers powerful audio processing capabilities combined with flexible control options, making it an ideal choice for AV integration projects, widely used in conference room, education, hotel, courtroom etc

Features

Comprehensive DSP: Each model includes Automatic Gain Control (AGC), a compressor/limiter, an expander, matrix mixing, and a standard 5-band parametric EQ.The adaptable speaker processor offers 10, 15, or 31-band equalization, delay, crossover, and filtering.

Enhanced Audio Clarity: Adaptive Echo Cancellation (AEC) and Adaptive Feedback Cancellation (AFC) technologies, ensuring superior audio clarity for any application.

Outstanding Sound Quality: Provides 24-bit/48kHz audio quality, with 16 in/16 out Dante network audio that is AES67 compatible.

Intelligent Ducker: DUCKER function reduces background music volume during speech.

Auto Mix: Gain-sharing type (AM) and threshold type (GAM) auto mixing to manage multiple microphone outputs.

Limiter: Protects the back stage equipment from damage, ensuring the longevity of your audio system.

Customization Options: We offer customizable user control interfaces, allowing clients to design their own user interfaces through web pages for straightforward operation.

Muti control function: With RS-232, TCP/IP and GPIO interfaces for complete control function.

User-Friendly Web-UI: Easy configuration through a straightforward graphical interface, compatible with multiple platforms including Windows, iOS, macOS, and Android.

USB interface: USB2.0 audio interface supports USB disk recording and playback, USB-B computer sound card interface supports 2x2 channels.

Application

Meeting Rooms

Conference Center

House of Worship

Courtrooms

Classrooms

• Training Rooms

Hotels

Lecture Halls

All Hand Space

SPECIFICATIONS

General Performance		
Frequency Response(A/D/A)	20Hz∼20kHz (±0.5dB)	
Sampling Rate	48kHz,24bit	
Dynamic Range(A/D/A)	>110dB,A-weighted(20Hz-20kHz@0dB Gain)	
THD	≤0.005%@1kHz,+4dBu	
Latency (A/D/A)	5.8 mS, inputs routed to outputs	
Noise Floor (A-weighted)	≤-90dBu	
Crosstalk	≤-105dB@+20dBu,1kHz	
S/N Ratio	>110dB,A-weighted(20Hz-20kHz@0dB Gain)	
Channel Isolation	≤-105dB@+20dBu,1kHz	
Preset Numbers	50	
Audio Input/Output		
Model	WebGem 0808	
Connector	3.81 mm terminal blocks	
Number of Analog Channels	8in8out	
Phantom Power	DC 48±6V,10mA	
Input Impedance	2KΩ balance	
Output Impedance	200Ω balance	
Maximum Input Level	20dBu	
Maximum Output Level	20dBu	
Max Input Gain	40dB	
Front Panel		
Indicator Light	Power/RUN/LINK	
Display Screen	1.8" colour LCD display Displays device name, IP address, input/output level and mute	
	status, current scene, software version	
Select Button	A push-to-turn button	
Rear Panel Panel		
UAC(USB Bidirectional	2x2 sound card, sampling rate 48kHz,16bit, interface type USB-B, data transmission	
Audio)	protocol USB2.0;	
USB	Interface type is USB-A and the data transfer protocol is USB2.0. Support recording and	
	playback, can play MP3/WAV format audio files, support FAT32 format U disk, recording	
	file format WAV	
RS232	4pin 3.81Phoenix terminal	
GPIO	8ch ,customized input and output, 12pin 3.81 Phoenix terminal	

LAN (TCP/IP Network Port)	Ethernet 10/100/1000MB RJ45	
Electrical and Physical Parameters		
Power Supply	AC100-240V±10%, 50/60Hz	
Power Consumption	24W	
Operating Temperature	0°C-45°C	
Relative Humidity	30%∼70%R.H.	
Dimensions	484mm*280mm*44mm	
Package size	570mmx410mmx135mm	
Net Weight	3.0Kg	
Shipping Weight	3.5Kg	

Rear Panel

