DSP36

3 INPUT 6 OUTPUT DIGITAL SPEAKER PROCESSOR

Features

DSP36 series professional loudspeaker audio processors provide users with multiple channels for choosing: 3×6. Supports analog input and analog output. They can perform various DSP functions, including matrix mixing, DEQ, FIR phase adjustment, noise gate, PEQ, delay, compressors, limiters, and frequency dividers. These processors can be quickly debugged and monitored through the GUI software Mconsole, offering a wide operating space for the construction and operation of audio amplification systems.



DSP36D represents the function of configuring 3 channels of Dante network audio input and output. Supports analog input and analog output channels at line level, with Dante network as an option. Features 96k 64-bit sampling rate. Input channels include 15-band PEQ, while output channels include 10-band PEQ with high-pass and low-pass filters. DEQ adjustment is available for each input channel. FIR phase correction includes input channels with ×1024 taps and output channels with ×512 taps. Support for all-pass filter and matrix mixing of all channels.

Includes GUI control software Mconsole (Windows). USB free-driver connection. Supports TCP/IP, USB wired control, and Android App Tcon wireless control. Provides RS232 central control. Also supports preset locking and setting default parameters for audio projects.

Technical Specifications

Feature	Specification
Signal Processing	LUCASACS chips, 64-bit, 96kHz
Audio System Latency	1.8ms
D/A Conversion	24-bit
Sampling Rate	96kHz
Input Channel	4 balanced inputs, Line level
Audio Interface	Cannon male and female
Input Resistance	11kΩ
Maximum Input Level	16dBu / Line
Output Channel	8 balanced outputs, Line level
Output Impedance	100Ω
Frequency Response Curve	20Hz–40kHz (±0.5dB) / Line
Noise Floor	20Hz–20kHz, A-wt, –93dBu
THD+N	–90dB (@0dBu, 1kHz, A-wt) / Line
SNR	108dB (@16dBu, 1kHz, A-wt) / Line
USB	Micro-B type, free driver
RS232	TCP/IP network port, Serial port communication
Indicator Light	RJ-45, CLIP, LIMIT, LEVEL, EDIT, MUTE
Power Supply & Dissipation	AC 90V–264V 50/60Hz. Standby 11.6W, Operate 11.8W
Operating Temperature	–20C to +80C
Dimensions (L×W×H)	Device: 483 × 215 × 44.5 mm Package: 537 × 343 × 77 mm
Weight	Net weight: 3.6kg Packaged weight: 4.2kg

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