

LSS introduces the new 4 in 8out (DSP48)Loudspeaker Controller System. New system configurations are possible with the abundant number of audio channels. The 8 outputs (DSP48) allow Stereo 4-way, Stereo 3-way + Mono 2-way and Quad 2-way output configurations while the 4 inputs allow Quad Mono (Multichannel), Dual Stereo + Center signal and Stereo Main+Stereo Monitor Signal input configurations. It enables the audio engineer to come up with creative system architectures.

DSP Series can be controlled remotely by a PC controller via the USB port . (DSP is possible with optional RJ45 LAN card for wire or wireless real time PC control).The firmware of the unit can be upgraded when new features become available. This eliminates frequent upgrade of the actual hardware for new software functions.



## DSP48Benefit

### Audio Control Parameters

Gain: -40 to +15dB in 0.25dB steps

Polarity: +/-

Delay: Up to 450ms per I/O

Equalizers (6 per I/O)

Type: Parametric, Hi-shelf, Lo-shelf

Gain: -30 to +15dB in 0.25dB steps

Bandwidth: 0.02 to 2.50 octaves (Q=0.5 to 72)

Crossover Filters (2 per Output)

Filter Types: Butterworth, Bessel,

Linkwitz Riley

Slopes: 6 to 48dB/oct

Limiters

Threshold: -20 to +20dBu

Attack: 0.3 to 100ms

Release: 2 to 32X the attack time

System Parameters

No. of Programs: 30

Program Names: 12 character length

Delay Units: ms, ft, m

Frequency Modes:36 steps/oct, 1Hz resolution

Security Locks: Any individual menu

Copy channels: All parameters

Channel Names: 6 character lengthLight Weight and high

www.lss.it

# Data Sheet

## DSP48

### Inputs and Outputs

Input Impedance: > 10k Ohms  
Output Impedance: 50 Ohms  
Maximum Level: +20dBu  
Type: Electronically balanced

### Audio Performance

Frequency Response: +/- 0.1dB (20 to 20kHz)  
Dynamic Range: 115dB typ (unweighted)  
CMMR: > 60dB (50 to 10kHz)  
Crosstalk: < -100dB  
Distortion: 0.002% (1kHz @ +4dBu)

### Digital Audio Performance

Processor: 32-bit (40-bit extended)  
Sampling Rate: 96kHz  
Analog Converters: High Performance 24-bit  
Propagation Delay: 3ms

### Front Panel Controls

Display: Backlit LCD  
Level Meters: 5 segment LED  
Buttons: 12 Mute Controls  
2 (Forward/Backward) Channels Gain/Menu Controls  
6 Menu Controls  
Dial Encoder: Embedded Thumb Wheel

### Connectors

Audio: 3-pin XLR  
USB: USB port  
Power: Standard IEC Socket

### General

Power: 115 / 230 VAC (50 / 60Hz)  
Dimensions: 19-in x 1.75-in x 8-in  
(483x44x203 mm)

All specifications are subject to change without notice.



## LSS Advanced Speakers Systems

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## LSS Advanced Speakers Systems

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