

DSM SERIES DSM24 | DSM48

DIGITAL SPEAKER MANAGEMENT SYSTEM



32-bit digital 2 / 4 in, 4 / 8 out speaker management system, including RS485 interface.

The Marco Audio digital speaker management systems are equipped top-end "Texas Instruments" DSP processor AD/DA converters with sampling rate up to 192KH enable a dynamic range of up to 114dB.

The DSM24 & 48 is equipped with 2 / 4 analog & digital (AES/EBU© format) inputs. 4 / 8 output & with RS485 connector. The use of modern & fast DSPs enables a latency (analog to analog) of 0.63ms only.

Each input channel includes 6 equalizers (with low-shelf, high-shelf & parametric function), a delay function & a noise gate.

The polarity of each input channel can be switched from + to -.

Each output channel includes 6 equalizers (with low-shelf & parametric function) & a delay function. The HPF (high-pass filter) & LPF (low-pass filter) is part of each output channel.

Both offer three different operation modes: Linkwitz-Riley. Butterworth & Bessel (up to 48dB/Oct).

Each output channel includes a high performance limiter.

The integrated flash memory chip offers space for 30 presets, which can be loaded via the preset-menu, three default-buttons or the PC remote software.

32位数字2 / 4输入，4 / 8输出扬声器管理系统，包括RS485接口。

Marco Audio数字扬声器管理系统配备了顶级 "Texas Instruments" DSP处理器AD / DA转换器，采样率高达192K，可动态范围高达114dB。



DSM24 & 48配有2 / 4模拟和数字（AES / EBU©格式）输入。

4 / 8输出和RS485连接器。

使用现代和快速的DSPs延迟只有0.63ms（模拟到模拟）。

每个输入通道包括6个均衡器（具有低架，高架和参数功能）延迟功能和噪声门。

每个输入通道的极性可以从+切换到-。

每个输出通道包括6个均衡器（具有低架和参数功能）和延迟功能。

HPF（高通滤波器）和LPF（低通滤波器）是每个输出通道的一部分。

两者都提供三种不同的操作模式：Linkwitz-Riley。巴特沃斯和贝塞尔（高达48dB / 音阶）。每个输出通道包括一个高性能限制器。

集成闪存芯片提供30个预设空间，可通过预设菜单，三个默认按钮或PC远程软件加载。

Specifications:

产品规格：

Input / Output

Input: 2/4 balanced input

Output: 4/8 balanced output

Input impedance: 10k ohm

Output impedance: 47 ohm

Maximum input level:

+20dBu

Maximum output level:

+ 20dBu

System Performance

系统性能：

Frequency response: 15Hz-20kHz, <- 0.25dB

Dynamic scope: > 115dB, 22Hz-22kHz without weight

THD + Noise: <0.006%, 20Hz-20kHz @ + 10dBu
<0.0015%, 1kHz @ + 10dBu
balanced input

Equivalent input noise: <50uV

Sampling rate: 96kHz

SNR: > 100dB, 20Hz-20kHz

CMRR: > 60dB

Internal channel crosstalk: <- 95dB

Digital / Analog converters: 24bit PCM

DSP process

数位訊号处理：

Parametric equalizer: Each input / output channel
6-band parametric EQ

Delay: Each input / output channel 1000 ms

Crossover: Butterworth,Bessel, Linkwitz-Riley,

12, 18, 24, 36, 48dB / octave

Processing delay: 4.5ms

General

一般：

Dimensions (W x H x D): 483 x 45 x 240 mm

Power: 50 / 60Hz, 90-240 V

Power : < 20 W

Net weight: DSM24: 3.2 Kg, DSM48: 3.5 Kg