# LMS242

## 2IN 4OUT Loudspeaker Management System

- 2 Inputs and 4 Outputs with routing
- 96kHz, 40 Bit Floating Point DSP Engine
- Ethernet connection
- 8 band parametric EQ per input and output
- 31band graphic equalizer per input

## OVERVIEW

The NEXT LMS242 loudspeaker management system, brings a new level of audio performance and value to the world of fixed architecture DSP for live sound production and fixed audio installations. The "state of the art" 96kHz, 40 Bit Floating Point DSP Engine, the High Performance 24 Bit Converters, and the Precise Algorithms, guarantee high end audio quality.

The NEXT LMS242 has 2 inputs can be matrix mixed/routed to any or all 4 outputs; Ethernet, USB and RS232 connectivity for configuration, control and software/firmware updates is standard; Processor configuration can be accomplished in real time from the front panel or with a computer Both 2 inputs offer 650ms delay, 31-band graphic and 8 parametric EQs, a complete filter section (max 48dB) and a compressor. All 4 outputs offer 650ms delay, a 8-band parametric EQ, a complete filter section (max 48dB) and a true RMS limiter. The LMS240 configuration can be accomplished in real time from the front panel or, for ultimate control, with a computer, by using the supplied LMS software control GUI for XP, Vista and Windows 7. Connectivity over RS232, USB and Ethernet are standard. That makes the LMS240 wireless ready (through a standard wireless router) and able be connected to an Ethernet network, with max 16 units, and be real time controlled from any location. The LMS240 is an excellent choice among installers and live sound engineers that are looking for full features high-end audio quality processor.

## TECHNICAL SPECIFICATIONS

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|---|---|
| **Inputs and Outputs** | |
| Input Impedance: | >10k |
| Output Impedance: | 50 |
| Maximum Level: | +20dBu |
| Type: | Electronicaly balanced |
| **Audio Performance** | |
| Frequency Response: | ± 0.1dB (20Hz to 30.000Hz) |
| Dynamic Range: | 115dB (unweighted) |
| CMMR: | >100dB (50Hz to 10.000Hz) |
| Crosstalk: | 100dB |
| Distortion: | 0.002% (1.000Hz at +4dBu) |
| **Digital Audio Performance** | |
| Processor (DSP): | 40Bit floating point |
| Sampling Rate: | 96kHz |
| Analogue Converters: | Super Performance 24Bit |
| Propagation Delay: | 1,5ms |
| **Audio Control Parameters** | |
| Gain: | -40dB to +15dB in 0.25dB steps |
| Polarity: | +/- |
| Delay: | Up to 650ms (225m) per output |
| **Equalization** | |
| Variable Equalizers: | 8 PEQ per I/O + 31 band GEQ per input |
| Type: | Parametric, Hi-helf, Low-shelf, Phase |
| Phase: | 1st and 2nd order |
| Gain: | -30dB to +15dB in 0.25dB steps |
| Bandwidth: | 0.02 to 3.61 Oct. (Q=0.311 to 72) |
| Graphic Equalizer: | 1 per input, 31 band 1/3 Oct. steps |
| **Crossover** | |
| Available: | 2 individual filters per I/O |
| Type: | Butterworth, Linkwitz Riley, Bessel |
| Slopes: | 6dB to 48dB per octave |
| **Compressors ands Limiters** | |
| Available: | 1 limiter per output channel |
| Available: | 1 Compressor per input channel |
| Threshold: | -20dB to +20dBu |
| Attack: | 0.3ms to 100ms |
| Release: | 2x to 32x the attack time |
| Compressor Ratio: | 1:1 to 1:40 |
| **System Parameters** | |
| Nr. of Programs: | 30 |
| Delay Units: | ms, ft, m |
| Frequency Modes: | 36 steps/octave, 1Hz resolution |
| Security Locks: | Password |

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|---|---|
| Channel Names: | 6 characters |
| **Front Panel Controls** | |
| Display: | 2x 16 characters backlit LCD |
| Level Meters: | 6 Segment LEDs |
| Buttons: | 6 mute/channel controls, 6 system menu controls |
| Dial Encoder: | 1 speed-sensitive rotary encoder |
| **Connectors** | |
| Audio Input: | 3 pin XLR |
| RS-232: | Female DB-9 |
| USB: | Type B |
| Ethernet: | Standard CAT-5 |
| Power: | Standard IEC socket |
| **General** | |
| Power Requirements: | 90-265 VAC (50Hz - 60Hz) - 20VA |
| Dimensions (WxDxH): | 483mm x 229mm x 44.5mm |
| Net Weight: | 4,6Kg |