MLSSA 2000
Mothercard and Upgrade Kit

- Quasi-Pink Filter: ±0.1 dB max. error
- Pink-MLS and White-MLS Outputs
- Protected Outputs Can Source 100 ma.
- Drives Long Cables and Low-Z Loads
- High Accuracy Z Measurements
- Supports 96 kHz Sampling
- Supports 16 MHz ISA Bus Speed

MLSSA 2000 Mothercard
The industry standard MLSSA Acoustical Measurement System now features a MLSSA 2000 mothercard, an improved design offering both Pink-MLS and White-MLS outputs, higher output drive capability as well as 96 kHz sampling capability. The new design also has virtually zero input-to-output crosstalk.

Precision Quasi-Pink Filter
The MLSSA 2000 mothercard includes a precision quasi-pink filter for faster and more noise immune measurements in noisy rooms. This filter also moderates the slew rate of the MLS stimulus thus lowering the chance that slew-induced distortion in the power amplifier will result in appearance of false reflections in the measured impulse response.

The filter’s frequency response is shown below. It is a true pink filter between 100 Hz and 10 kHz meeting the requirements of ISO 3382 for room acoustics measurements. A fast precision time-domain digital correction filter is provided in software. Total error after correction is ±0.1 dB max and typically ±0.05 dB or less, as shown in the error curve below right.

High Current Drive Capability
The MLSSA 2000 card includes high current output op amps able to source up to 100 ma on both the Pink-MLS and White-MLS outputs. These robust op amps are self-protecting against short circuits and thermal overloads. An on-board spare is included just in case.

High Accuracy Impedance Measurements
The MLSSA 2000 card includes precision 75.5-ohm, 0.1% tolerance, 1-watt power resistors in both the Pink-MLS and White-MLS outputs. These resistors also improve the accuracy of Thiele-Small parameter measurements using MLSSA SPO.

Exact 96 kHz Sampling
The MLSSA 2000 mothercard supports exact 96 kHz sampling for loudspeaker/room correction and auralisation applications. All sampling rates generated by older MLSSA cards are also available.

MLSSA 2000 Mothercard Upgrade Kit
Owners of older MLSSA cards can upgrade to the latest hardware and software by ordering a MLSSA 2000 Mothercard Upgrade Kit. At less than half the cost of a new MLSSA 2000 system, this upgrade includes the MLSSA 2000 mothercard and latest MLSSA software. Your old AFM-50 filters are reused.

Quasi-Pink Filter Frequency Response

Typical Error after Digital Filter Correction

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