

# Mini-Sam II Digital SOUND AND MOTION CONTROLLER

The Mini-SAM II model MS-2E plays back synchronous digital audio, lighting, and control information. Its compact size and efficient design make it perfect for audio and control applications where cost and space are a concern. It plays 2.1 channels of stereo digital audio (left, right, subwoofer or two independent mono channels), along with synchronous control information. A multi-channel polyphony feature allows numerous audio files to play on the same channel. Audio and control information are stored on Compact Flash Cards (not provided). Files can be efficiently transferred to and from CF cards using a PC with CF card reader/writer or via Ethernet. Professional 16-bit (24-bit capable with future OS) quality audio with audio selectable sampling rates of up to 48.1Khz. The powerful on-board power amplifier provides 160W (80W x 2 channels) of rock-solid power. Audio line outs and provisions for line and microphone inputs are also provided. Eight optically-isolated trigger inputs, 16 direct output controls, DMX-512 in/out for lighting and additional control expansion, and Ethernet are all included. The Sequence Programming Language is a powerful user-scripting language for creating simple to complex control algorithms. SKE PC Software Tools can be downloaded for FREE (with purchase of hardware). The Mini-SAM II can be used in countless applications including robotics, animated characters, messages on hold, annunciators, public address systems and public safety. Playback can be triggered from several sources including motion sensors, switches, logic signals, door and pressure sensors, and more. The unique design behind the Mini-SAM II is patented.



## Mini-SAM II (Model MS-2E Rev. 1.2) Features and Specifications\*

- 2.1 stereo or two mono audio outputs. Polyphony feature plays independent left/right or stereo plus additional tracks.
  - 16 to 24-bit (capable) PCM Audio. Up to 48.1 KHz sampling. Maximum number of messages limited only by CF card size.
  - Embedded digital signal processing (DSP) including seven-band EQ, compression/expansion, subwoofer crossover, ducking, cross-fading, independent track and channel volume controls.
  - On-board two-channel power amplifier. 80W x 80W into 4 ohms, 40W x 40W into 8 ohms.
  - Audio line outputs, provisions for audio line and microphone inputs with on-board analog to digital converters.
  - Compact Flash Interface (CF cards sold separately).
  - Ethernet I/F for networking, commands, status and control, and file transfers.
  - 16 discrete bits of digital output control, low-side switching via open-collector transistors 125mA typical.
  - 8 optically isolated input triggers with high or low-side triggering.
  - RS-232/RS-485 interfaces allow programming, triggering and additional control. DMX-512 in and out for control expansion.
  - Powerful Sequence Programming and emulation for user scripting of event triggering, 2.1 channel and multi-track audio, output control, DMX-512, audio channel and track volume and ducking, and many other functions.
  - On-board real-time clock with backup battery. Real-time event triggering through sequence programming.
  - Sequence programming language capability: 32 concurrent processes. Field upgradeable operating system.
  - Recommended Power Supply: 12-26 Volts DC @ 3 Amps (5 Amps Max).
  - Compact Enclosure; 5.125" L x 5.5" W x 1.5" D. Weight 1 lb. 2oz. Several possible mounting configurations. One year warranty.
- \*Specifications, features, and information subject to change without notice.

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