

WE'VE CREATED A MONSTER.

Expect goosebumps.

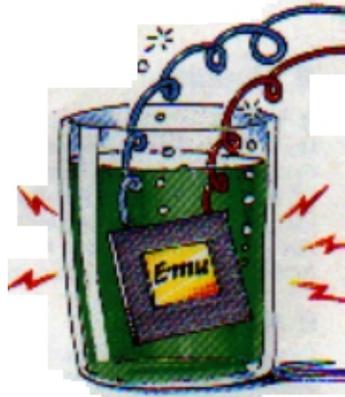
The new Emax II 16-bit digital sound system unleashes truly staggering power: The uncompromised sonic quality of our Emulator III. Made affordable by the custom chip technology that hatched the E-mu Proteus.

For you, this means a keyboard that combines extraordinarily life-like sampling. And Spectrum Interpolation Digital Synthesis.

Giving you sounds so dynamic, they're alive.

Something else separates Emax II from the rest of the pack: 32 studio channels (configured as 16 stereo voices); 32 digital filters *with* resonance; 8 polyphonic outputs with integral effects sends/returns; and an arsenal of 16-bit DSP functions.

To feed all this power, we offer a rich menu of sounds transferred from the EIII library, Emax II also reads and plays anything from the enormous Emax sound library including OMI CD ROM's.



And it can grow to gigantic proportions. You can increase memory up to 8 Megabytes. Install a 40MB internal hard drive. Or add a host of Mac compatible peripherals through its SCSI port. Like the new 600MB erasable optical drive or our own RM45 rack-mount 45MB cartridge hard drive.

Built in the U.S., Emax II is taking over your neighborhood E-mu dealer.

Stop by. And discover the new keyboard that's so good, it's scary

E-mu Systems, Inc.
applied magic for the arts



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SPECIFICATIONS

Controls

- Sliders**
Mix Volume, Data
- Keypad**
Select Preset, Transpose, Drive Select, Load Bank, Enter Data
- Cursor Control**
Cursor Left, Cursor Right
- Data Entry**
Increment/Yes/On, Decrement/No/Off

Modules

- Master**
Master Tune; Memory Remaining; Velocity Curve (1-14); Erase All; Format Disk; Erase HD Bank; Bird Run; Backup/Restore; Special Functions - Copy Software, MID! Master, Recalibrate, Audition Note, MID! Analyzer, SCSI Boot ID, Set Headroom, Install Disk
- Sample**
Change Sample; VU Mode/Gain; Place Sample; Sample Rate; Sample Len9th; Threshold; Arm Sampling; Force Sampling
- Digital Processing**
Change Voice; Truncate-Start/End; Loop Start/Length; Release Loop-Start/Length; Loop Mode-On/Off, Loop in Release, Backwards; Taper-Start/End; Splice; Combine; Crossfade
Loop; Digital Effects - Gain/Attenuation, Reverse Sound, Change Sample Rate, Change Pitch, Transform Multiplication, **Spectrum Synthesizer** - Frequency Spectrum, Time Slice, Amplitude Contour, Pitch Contour, Pitch/Ratios, Interpolate, Load Backup, Save Backup, Erase, Synthesize!
- Preset Management**
Load Preset; Save Compressed; Create Preset; Erase Preset; Copy Preset; Rename Preset; Preset Size; Save All 16-Bit
- Preset Definition**
Stack Presets; Copy Voice(s); Edit Assignment; Erase Voice(s); Stereo Voice; Crossfade; 21 Function Arpeggiator; MIDI Basic Channel 1-16, MID! Out/Thru, Omni/Poly, Send Preset #, Receive Preset #, Start/Stop Sequencer, Local Control On/Off, Notes÷ Wheels On/Off, MID! Controller # Assign; Pitch Bend Range

Realtime Controls

- | | |
|----------------|---------------------|
| <i>Source:</i> | <i>Destination:</i> |
| 1) Left Wheel | 0) Off |
| 2) Right Wheel | 1) Pitch |
| 3) Pressure | 2) Filter Fc |
| 4) Pedal AID | 3) Level |
| 5) MIDI A | 4) LFO -> Pitch |
| 6) MIDI B | 5) LFO -> Filter Fc |
| | 6) LFO -> Level |
| | 7) Attack |
| | 8) Pan |
| | 9) Crossfade |

Footswitch Controls

- | | |
|-----------------|------------------------|
| <i>Source:</i> | <i>Destination:</i> |
| 7) Footswitch 1 | 0) Off |
| 8) Footswitch 2 | 1) Arpeggiator Control |
| | 2) Sequencer Control |
| | 3) Sustain |
| | 4) Release |
| | 5) Cross-Switch |
| | 6) Advance Preset |

- Dynamic Processing**
Change Voice; Voice-Attenuation, Tuning, Delay; VCA-Attack, Hold, Decay, Sustain, Release; Filter- Fc, Q, ± Envelope Amount, Kybd Tracking; Filter-Attack, Hold, Decay, Sustain, Release; LFO Setup-Rate, Delay, Variation; LFO To:- Vibrato, Tremolo, Fc, Panning; Velocity To:-Level, Fc, Q, Pitch, Volume Attack, Filter Attack, Panning, Pan Position; Stereo Chorus -Amount; Kybd Mode -Output Channel, Solo On/Off, Non-transpose Mode; Control Enable

- Sequencer Master Controls**
Select Sequence; Play; Stop; Record Setup
Track Status; Track->Preset; Auto Extend; Erase Track; Bounce Track; Super Mode Manage
Tempo; Clock Source; Load Sequence; Erase
Sequence; Copy Sequence; Rename Sequence

Specifications

- Computer**
32-bit CPU, 32-character display, up to 8 megabytes sound RAM on board
- Data Storage**
3.5" micro floppy disk drive, 40 megabyte hard disk (optional), SCSI for additional external storage devices, CD ROM, etc.
- Data Encoding**
16-bit linear ADC
18-bit linear DACs -

Sampling Rates: 20 kHz, 22 kHz, 28 kHz, 31 kHz, 39 kHz

Sample times	Mono	Stereo-
1 Mbyte, 20 kHz	26.1 sec.	13 sec.
1 Mbyte, 39 kHz	13.4 sec.	6.7 sec.
4 Mbyte, 20 kHz	104.9 sec.	52.4 sec.
4 Mbyte, 39 kHz	53.7 sec.	26.8 sec.
8 Mbyte, 20 kHz	209.7 sec.	104.8 sec.
8 Mbyte, 39 kHz	107.4 sec.	53.7 sec.

- Signal to Noise:** >90 dB
- Dynamic Range:** Input > 90 dB
Output > 102 dB
- Frequency Response:** 20 Hz - 19kHz
- THD+N:** <0.05%

- Stereo Phase:** Phase Coherent ±1° @ 1KHz
All specifications measured at 39kHz sample rate.

- Audio Channels**
32, configured as 16 stereo voices or 16 mono voices with stereo chorus
- Digital Filters**
32, digital lowpass fitters with Q (one per channel)
- Transposition Range**
10 octaves (± 5 octaves from original pitch)
- Keyboard**
5-octave, velocity sensitive
- Inputs**
Sample In, MIDI In, Clock In, Voltage A/D, Footswitch 1 & 2, Six Effect Returns
- Outputs**
Eight, polyphonic (configured as four pairs of stereo outputs w/ programmable panning), Stereo Phones, Mono Mix, MIDI Out, MIDI Thru, Clock Out
- Interfaces**
SCSI, RS-422, MIDI

System Expansion Options

- HD300-** Rack Mount 300 MB Hard Disk Drive
- RM45-** Rack Mount 45 MB Removable Media Hard Disk Drive
- DTC Hyperflex-** 20 MB Removable Media Disk Drive
- Computer Based Sound and Sequence Editing Programs**
Mac - From Digidesign: *Q-Sheet A/V, Sound Designer, Softsynth and Turbo Synth.*
- From Blank Software: *Alchemy.*
IBM - From Turtle Beach: *Sample Vision.*
- CD ROM Data Retrieval System**
- Compatible with Sony and Ricoh 600MB Read/Write Optical Drives**
- Keyboard Dimensions**
Height: 5.20" (rear), 2.94" (front),
Width: 16.29", Length: 43.14"
- Rack Dimensions**
Height 5.25", Width: 19", Depth: 13.5"

Specifications subject to change without notice.



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