YAMAHA

MOTIF ES6

MOTIF ES7

Expansion Board mLAN16E

I/O Expansion Board AIEB2

MOTIF ES8

Specifications

Keyboards	MOTIF ES8 88 keys	Balanced Hammer Effect Keyboard (Initial Touch/Aftertouch)
	MOTIF ES7 76 keys	FS Keyboard (Initial Touch/Aftertouch)
	MOTIF ES6 61 keys	FS Keyboard (Initial Touch/Aftertouch)
Tone Generator block	Tone Generator	AWM2 (complying with the Modular Synthesis Plug-in System)
	Polyphony	128 notes + the polyphony of the Plug-in Board (if installed)
	Multi Timbral Capacity	16 parts (internal) + 3 or more Plug-in Board parts (1 for each Single Plug-in Board; 16 for Multi Plug-in Board), Audio Input parts (A/D, AIEB2, mLAN*) * 4 stereo parts
	Wave	175MB (when converted to 16-bit linear format), 1,859 waveforms
	Voice	Preset: 768 Normal Voices + 64 Drum Kits GM: 128 Normal Voices + 1 Drum Kit User: 128 x 2 (Bank1: Original, Bank2: Picked up from Preset) Normal Voice + 32 Drum Kits
	Plug-in Voice	Preset for the PLG150-AN/DX/PF/DR/PC: 64 Preset for the PLG150-VL: 192 User: 64 for each Plug-in slot
	Performance	User: 128 (up to 4 parts)
	Filter	18 types
	Effect System	Reverb x 20 types, Chorus x 49 types, Insertion (A, B) x 116 types x 8 blocks, Master Effect x 8 types, Master Equalizer (5 bands), Part EQ (3 bands, stereo), Plug-in Insertion (available when the PLG100-VH has been installed to slot 1)
	Expandability	3 Slots for Modular Synthesis Plug-in Boards
Sampling block	Samples	Up to 1,024 Waveforms (Multi Samples) Up to 128 Key Banks per Waveform Up to 4,096 Key Banks
	Sampling Source	Analog input L/R, Stereo output (Resampling), Digital/Optical (available when the AIEB2 has been installed), mLAN (available when the mLAN16E has been installed)
	Sampling Frequency	44.1kHz, 22.05kHz, 11.025kHz, 5.5125kHz (Stereo/Mono) • Digital Sampling Frequency (when the AIEB2 has been installed) 48kHz, 44.1kHz, 32kHz * Can be input, with converted to the Sampling Frequency of the MOTIF ES. • Sampling Frequency via the mLAN (when the mLAN16E has been installed) 44.1kHz (fixed)
	Sampling Memory	Optionally installed, expandable to 512MB (256MB DIMM x 2 slots)
	Sampling Time	44.1kHz: 6 min. 20 sec., 22.05kHz: 12 min. 40 sec., 11.025kHz: 25 min. 20 sec., 5.0125kHz: 55 min. 40 sec. * Mono/Stereo
	Sample Format	Original format, WAV, AIFF, A3000/4000/5000/SU700 format (loadable only), AKAI S1000/S3000 format (loadable only)

Sequencer block	Note	Capacity Approx. 226,000 notes
	Note Resolution	480 ppq (parts per quarter note)
	Maximum Polyphony	124 notes
	Tracks	Pattern Mode: 16 phrase tracks Pattern Chain Mode: Pattern track, Tempo track, Scene track Song Mode: 16 sequence tracks (Loop on/off can be set for each track), Tempo track, Scene track
	Patterns	64 patterns (x 16 sections) Measures: 256 maximum
Phrases		Preset Phrases: 687 phrases User Phrases: 256 per pattern
	Songs	64 songs
	Arpeggio	Preset x 1,787 types User x 256 types * MIDI Sync, MIDI transmit/receive channel, Velocity Limit, and Note Limit can be set.
	Sequence Format	Original format, SMF format 0, 1 (Format 1 load only)
Others	Master	User: 128 * 4 Zones (Master keyboard settings), Assignable Knob/Slider settings, Program Change Table
	Sequence Software compatible with the Remote Control function	• For Windows ® SQ01 V2, Cubase SX, SONAR 2.0, Multi Part Editor for MOTIF-RACK, Multi Part Editor for MOTIF ES • For Macintosh ® Logic 5.5, Digital Performance 3.1
	Controllers	Pitch Bend wheel, Modulation wheel, Ribbon Controller, Assignable Control Sliders (4), Assignable Knobs (4), Data dial
	Display	240 x 64 dot graphic backlit LCD
	External Memory	SmartMedia™ (3.3V) * Up to 128MB can be used.
	Connectors	OUTPUT L/MONO, R (standard phone jack), ASSIGNABLE OUTPUT L, R (standard phone jack), AD INPUT L, R (standard phone jack), PHONES (standard stereo phone jack), FOOT CONTROLLER 1/ 2, FOOT SWITCH x 2 (SUSTAIN, ASSIGNABLE), BREATH, MIDI IN/OUT/THRU, USB (TO HOST, TO DEVICE), AC INLET
	Power Consumption	38W
	Dimensions, Weight	MOTIF ES8: 1,458 (W) x 465 (D) x 167.4 (H)mm, 28.3kg MOTIF ES7: 1,255 (W) x 394 (D) x 136.4 (H)mm, 19.2kg MOTIF ES6: 1,048 (W) x 394 (D) x 136.4 (H)mm, 16.5kg
	Accessories	AC Power cord, CD-ROM x 3, Owner's Manual, Data List, Installation Guide

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For details please contact:

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MUSIC PRODUCTION SYNTHESIZER

MOTIF ES

The **ES** – The Next Generation of Inspiration

The all new MOTIF "**E**xpanded **S**ystem" Music Production Synthesizers – completely redesigned from the inside out to be the most powerful MOTIFs yet.

An **E**nhanced **S**ound set with an **E**volved **S**ynthesis Engine

Not only do the new MOTIF ES Music Production Synthesizers feature the largest wave ROM of any workstation keyboard available (175 MB in 16-bit linear format), but that Extensive Sonic library is at the heart of the most expressive, most musical synthesis system on the planet, bar none.
The Enhanced Sound set of the ES 1,859 waveforms – the majority of them newly sampled specifically for the MOTIF ES series – provide the foundation for 1,024 outstanding normal voices plus 65 drum kits. There are even Mix Voices so you can edit and create your own Voices will listening to your songs and store them right along with the song data. The MOTIF ES delivers an extraordinary sonic depth and musical response. The range of sounds it produces is stunning — from the Emulative Sounds of acoustic piano and orchestra to the Extreme Synthesis of cutting-edge hiphop and electronica. You only have to hear the ES once to know this is the best sounding, most Evolved Synthesizer Yamaha has ever made.

The Heart of the **E**xpanded **S**ystem

The newly designed tone generator chip offers true 128-note polyphony that gives you the freedom to create intricate compositions using the full gamut of the MOTIF ES Exceptional Sonic power.
These instruments are designed for serious music production. The newly developed synth engine offers new synthesizer parameters and faster, more precise envelope control.

Expressive **S**ampled Sounds with the New "Keyboard Mega Voices"

A significant leap forward from simple single layer samples, "Keyboard Mega Voices" technology makes it possible to include all the nuances of an instrument's realtime performance. Imagine a guitar voice, for example, with hammer-ons, pull-offs, harmonics, slides, fret noises, and other elements of the "real thing" all accessible from the keyboard at the same time. Keyboard Mega Voice technology takes MOTIF ES guitar, bass, and other instrument voices to new expressive heights.

Enhanced **S**ignal Processing Effects System

If you've ever felt limited by the Effect Systems in other keyboards, be prepared for total liberation: system effects include 20 reverb types and 49 chorus/delay types, while each Voice can have two large blocks of 116 insertion effect types. In the song or pattern modes, up to Eight Separate parts can have their voice insertion Effects Simultaneously. There's also independent three-band part EQ Settings for each of the 16 parts in Mix, eight types of mastering effects including multi band compression, and a five-band master EQ to complete your productions right to the final mastering stage. New reverbs, vintage phasers, flangers and wah-wahs ensure that you get the highest quality effects that are available in Yamaha's vast arsenal of DSP algorithms.

Easy **S**ong Making with new **ES** "Phrase Factory"

Much more than a simple arpeggiator, the MOTIF ES Phrase Factory offers unprecedented versatility for creating sequenced phrases. Use it with the drum kits to produce innovative rhythm patterns, or take advantage of its chord-recognition capabilities to generate pitched phrases using the normal voices. You have 1,787 preset arpeggiator phrases to start with – from standard synth arps to drum loops to natural-sounding acoustic-instrument grooves. The Phrase Factory system works seamlessly with Keyboard Mega Voice technology so you can take advantage of all the expressive Keyboard Mega Voice nuances. You can even assign five different arp phrases to the switches below the display and switch them in real time. Plus the arpeggiator's new chord recognition and performance play parameters let you easily create your own user arps or modify presets to make them your own. Finally if your creative runs dry, Real Time Loop Remix let's you generate literally thousands of instant variations on any phrase either MIDI or audio.

Exceptional **S**ampling & **E**xtensive **S**equencing with ISS

The Integrated Sampling Sequencer in the ES provides the seamless integration of MIDI and audio sample sequencing places the MOTIF ES synthesizers right on the leading edge of music production. Of course you can BPM-sync playback of MIDI and sample loops, and our Time Slice function lets you handle samples with the same freedom as MIDI sequence data without altering pitch or losing audio quality. A maximum sample RAM (DIMM) capacity of 512 MB places the MOTIF ES sampler section in the same league as some of the most advanced stand-alone samplers available. The ES comes with a bundled CD-ROM with over 170 MB of sample voices including the S90 three layer piano, sweet sax and woodwind voices and drum loops. The sequencer section can handle up to 226,000 notes in 16 tracks, and with lots of new features like Rehearsal Rec mode. You are only limited by your imagination.

Expressive **S**urface for Real Time Control

For truly musical expression there's no substitute for realtime hands-on control. The MOTIF ES gives you four rotary controllers and four faders that can be assigned to control filters, volume, effects, envelops … any of an extensive range of voice parameters. These same controls provide a digital mixer feel when mixing multiple sequenced parts. They can also be used as MIDI controllers to control external MIDI devices. We've even added a ribbon controller for intimate fingertip voice control. And since you need to be able to find and recall voices as quickly as possible, the MOTIF ES synthesizers feature a Category Search function. The Category Search function includes a Favorite category that can store up to 128 of the voices that you use most frequently for instant recall from any mode.

Elegant **S**ystem Integration with DAWs

If you use a computer-based sequencer or DAW as part of your music production setup, with press of a button you can turn the MOTIF ES into a full function control surface that supports the same protocols as the new 01X Digital Mixing Studio. Simply connect a USB cable between the instrument's "TO HOST" USB port and your computer's USB port, and you can directly access your sequencer/DAW software's fader, pan, EQ effect send, track mute, transport, and other parameters from the MOTIF ES controllers. You can even open and close windows on your computer directly from your ES.

Efficient **S**torage via USB Hosting and SmartMedia™

In addition to the USB "TO HOST" port mentioned above, the MOTIF ES synthesizers feature a USB "TO DEVICE" port that can be connected to a USB storage device such as hard disks, flash disks, or card memory readers for convenient, safe external storage of your samples, sequences, and other production data. A built-in SmartMedia™ slot accepts memory cards with capacities up to 128 megabytes for convenient external data storage.

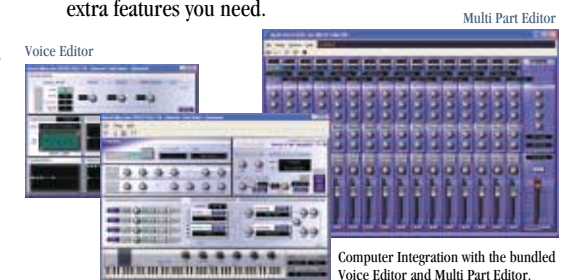## **E**xpansion **S**lot for mLAN Networking or more Audio I/O

When you want to move up to mLAN networking – Yamaha's high-performance music networking protocol – simply install the optional mLAN16E expansion board (available soon) in your MOTIF ES synthesizer and you're ready to network and share multiple ports of MIDI data and multiple channels of 24-bit/96 kHz audio data with other mLAN compatible devices or computers with 1394 Firewire connectors.
If your system requires more audio inputs and outputs than come standard with the MOTIF ES, add an optional AIEB2 I/O Expansion Board for an additional six independent analog inputs and outputs as well as coaxial and optical stereo digital inputs and outputs.

Modular Synthesis Plug-in System

Right out of the box the MOTIF ES synthesizers are powerhouses of music production features and sounds. If you want additional capabilities, however, the Modular Synthesis Plug-in System lets you simply plug-in appropriate optional expansion boards. For analog-modeling synthesis there's the PLG150-AN, or for advanced 6-operator FM synthesis there's the PLG150-DX. The incredibly real sound of virtual analog synthesis is available via the PLG150-VL board, the PLG150-DR delivers outstanding AWM-generated drum sounds, choose the PLG150-PC for percussion, or install the PLG150-PF for outstanding piano sound. The MOTIF ES synthesizers have three expansion slots that can accommodate the extra features you need.

Voice Editor

Multi Part Editor

Computer Integration with the bundled Voice Editor and Multi Part Editor.