

MODULAR SYNTHESIS PLUG-IN SYSTEM

The Ultimate Synthesizer Expansion System Has Arrived!



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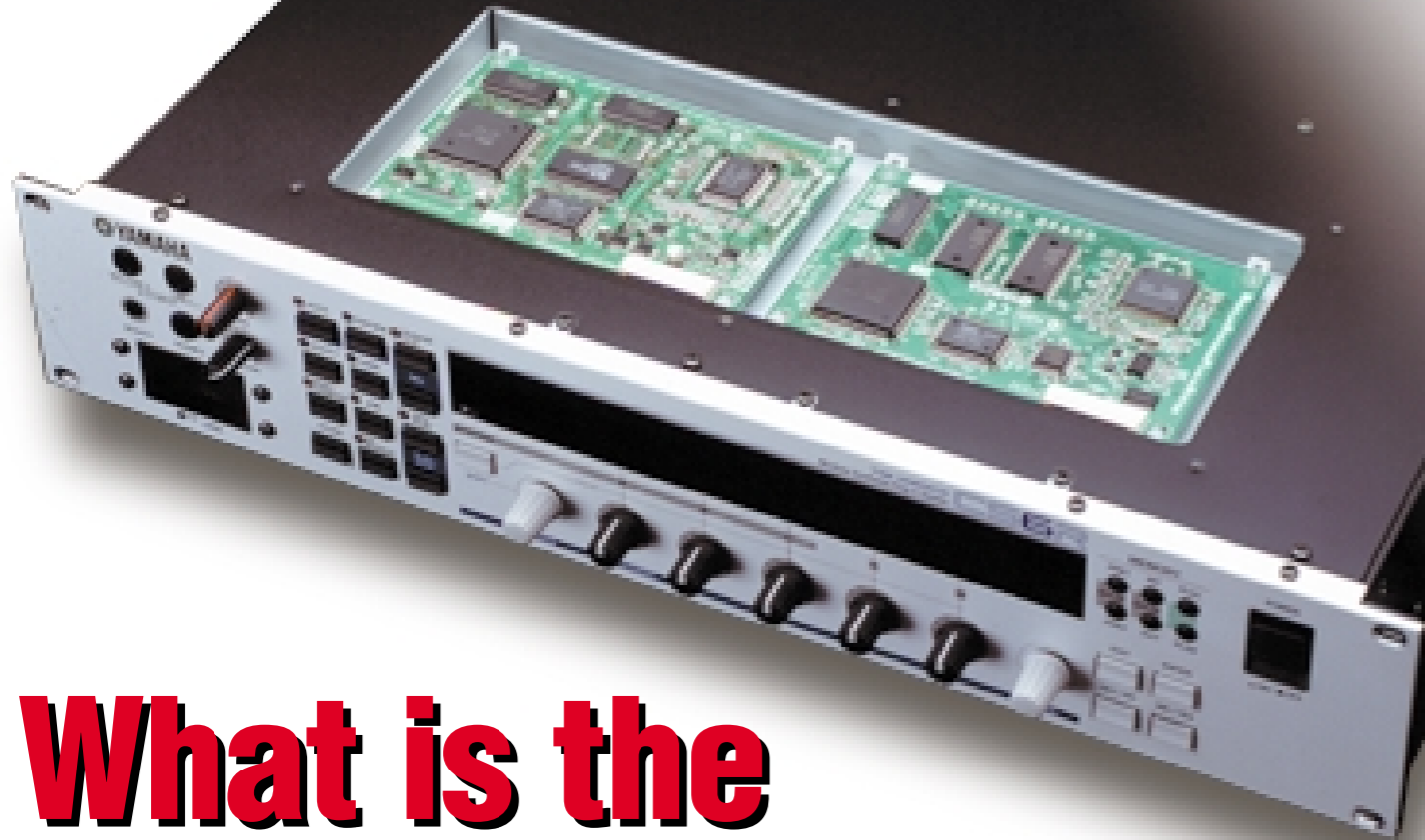
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Printed in Japan

S30
S80
CS6x
CS6R
MU128
SW1000XC/P



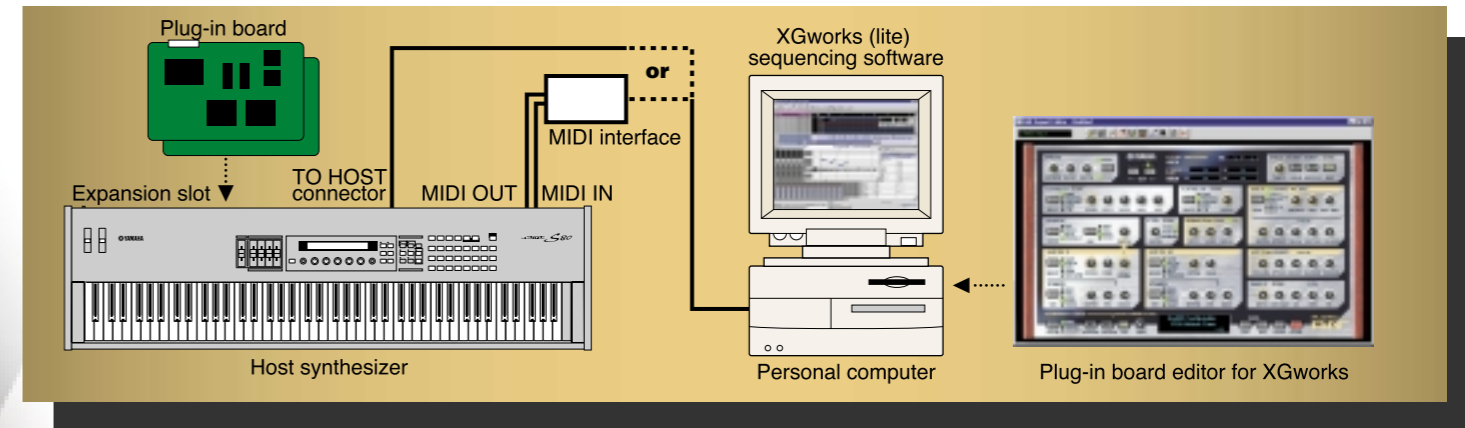
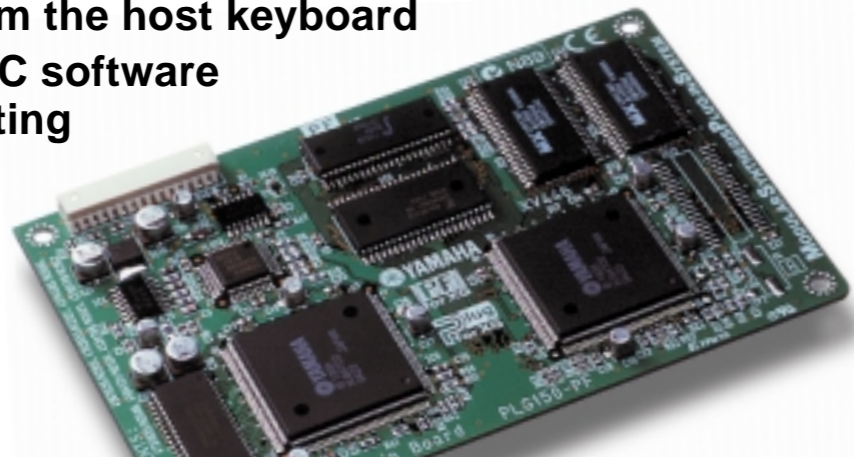
MODULAR SYNTHESIS PLUG-IN SYSTEM



What is the Modular Synthesis Plug-in System?

Powerful Expansion Boards That:

- Expand your sound generation capabilities
- Increase your available polyphony
- Give you more multitimbral parts and effects
- Can be controlled from the host keyboard
- Come bundled with PC software for detailed voice editing



Yamaha's Modular Synthesis Plug-in System is a revolutionary expansion system that adds a COMPLETE SYNTHESIZER or SOUND PROCESSING ENGINE to any Modular-Synthesis-Plug-in-compatible synthesizer. Yamaha's amazing plug-in board lineup, which includes the PLG150 Professional Series and the PLG100 Standard Series, not only gives you new sounds, but also new synthesis architecture, new effects processors, extra polyphony and more. It's like placing an additional synthesizer or digital effects processor inside your existing keyboard—but at a fraction of the cost!

Once a plug-in board is installed, you can directly access any of its voices and edit them from the front panel of the host synthesizer. You can also use a PC-based software editor (bundled with each plug-in board) to edit any of the voices in detail. Many voice parameters can be controlled by a MIDI sequencer, which enables you to record realtime edits, such as filter cutoff frequency and effect levels, for automated voice transformation during playback.

With the Modular Synthesis Plug-in System, you can customize your Yamaha synthesizer with the exact synthesis or processing power you need...whenever you need it.

Note: Bundled editors are software plug-ins developed for XGworks sequencing software (Windows® 95/98).

PLG150 Professional Series Plug-in Boards

Offering new synthesis possibilities ranging from physical modeling to FM synthesis, these high-quality plug-in boards cater to specific synthesizer needs of professional users. Each plug-in board within the PLG150 Series comes bundled with special "Plug-in Voice" data that makes full use of the exclusive features found on the S80, S30, CS6x and CS6R synthesizers.

- PLG150-AN** Analog Physical Modeling Plug-in Board
- PLG150-PF** Piano Plug-in Board
- PLG150-DX** Advanced DX/TX Plug-in Board
- PLG150-VL** Virtual Acoustic VL Plug-in Board

PLG100 Standard Series Plug-in Boards

These plug-in boards offer high-quality voices and/or effects that are essential for any music genre. All PLG100 Series plug-in boards are compatible with Yamaha's XG format to ensure versatile music production.

- PLG100-XG** XG Plug-in Board
- PLG100-VH** Vocal Harmony Plug-in Board

Note: PLG150 Series plug-in boards and the PLG100-VH and PLG100-XG plug-in boards can be installed together in any combination in the S80 or CS6x/6R. Using previously released plug-in boards (PLG100-VL and PLG-DX), however, may result in 1) loss of edited voice data when the power is off, or 2) no sound output; therefore it is recommended to install the tuned-up versions (PLG150-VL and PLG150-DX) in these synthesizers.

Analog Physical Modeling Plug-in Board

PLG150-AN



Reproduce the fat and resonant sounds of vintage analog synthesizers. This board gives you a synth engine similar to the one featured in Yamaha's amazing AN1x analog physical modeling synthesizer. It provides a full array of classic synthesizer components, including fat resonant filters, LFOs, oscillator sync and FM, as well as distortion, 3-band EQ, arpeggiator and step sequencer. For even more expressive synthesis control, it features a powerful "morphing" function and programmable envelope generator with which you can freely draw your own custom envelopes for various parameters. With the PLG150-AN, creating the classic analog strings, brass and bass sounds of the '70s and '80s is incredibly easy, making it the ideal plug-in board for producers of contemporary pop/rock music or modern electronic dance music.

AN Easy Editor



AN Expert Editor



Tone Generator Type	AN (Analog Physical Modeling Synthesis)
Polyphony	5 notes
Voices	256 Preset 128 User
Effects	Guitar Amp. Simulator (Distortion), 3-Band EQ, XG Part EQ
Interface	Plug-in Connector (15-pin digital I/F connector)
Accessories	FD (AN Easy Editor, AN Expert Editor, Demonstration Songs, Plug-in Voice Data for the CS6x/CS6R/S80/S30, Performance Data for the MU128)
Dimensions (W) x (D) x (H)	138.5 x 89.0 x 8.5 mm (5 9/16" x 3 5/8" x 3/8")
Weight	65 g (2.3 oz)

Note: In addition to a plug-in editor for XGworks, AN Easy Editor exclusively for XG-compatible platforms such as the MU128 and SW1000XG/P is included. PLG150-AN can import bulk MIDI data from the AN1x; however, some parameters may not be reproduced.

Piano Plug-in Board

PLG150-PF



For the serious piano player, this plug-in board is loaded with hundreds of painstakingly sampled piano and keyboard voices—from concert grands and uprights to electric pianos and harpsichords. It also contains a wide variety of authentic electric piano sounds including classic keyboards of the '60s and '70s and contemporary digital pianos. What's more, it provides a dedicated digital effects processor, allowing you to apply EQ, reverb, chorus and insertion effects to the plug-in board voices without taking away from the processing power of the host synthesizer. Multiple piano boards can be used together, giving you an additional 64 notes of polyphony for every board installed. For professional recording studios that demand authentic piano sound but don't want to bother with a real piano, a keyboard loaded with multiple PLG150-PF plug-in boards makes a perfect solution.

PF Easy Editor



Tone Generator Type	AWM2
Polyphony	64 notes
Voices	136 Preset
Effects	Reverb, Chorus, Insertion, 2-Band EQ
Interface	Plug-in Connector (15-pin digital I/F connector)
Accessories	FD (PF Easy Editor, Demonstration Songs, Plug-in Voice Data for the CS6x/CS6R/S80/S30)
Dimensions (W) x (D) x (H)	138.5 x 89.0 x 8.5 mm (5 9/16" x 3 5/8" x 3/8")
Weight	72 g (2.5 oz)

Note: In addition to a plug-in editor for XGworks, PF Easy Editor exclusively for XG-compatible platforms such as the MU128 and SW1000XG/P is included.

Advanced DX/TX Plug-in Board

PLG150-DX



Get the classic sounds of Yamaha's renowned DX-7 synthesizer. The PLG150-DX features the same 6-operator, 16-note polyphonic FM tone generation system that took the synthesizer industry by storm in the '80s. This outstanding plug-in board is capable of producing beautiful, ultra expressive electric pianos, punchy basses, dynamic leads and unusual sound effects—sounds for which FM synthesis is famous. PCM-based synthesizers cannot come close to faithfully reproducing the rich dynamics of FM. The PLG150-DX is compatible with voice data of Yamaha DX- and TX-series synthesizers such as the DX-7, DX-7II, TX-816 and TX-802, which means you'll have access to literally thousands of DX patches available on the Internet and elsewhere. This plug-in board is a must-have for electronic musicians and composers of contemporary music.

DX Easy Editor



DX Simulator



Tone Generator Type	FM Synthesis
Polyphony	16 notes
Voices	912 Preset 64 User
Effects	Part EQ, Lowpass, Highpass
Interface	Plug-in Connector (15-pin digital I/F connector)
Accessories	CD-ROM (DX Easy Editor, DX Simulator), FD (Demonstration Songs, Plug-in Voice Data for the CS6x/CS6R/S80/S30, Performance Data for the MU128)
Dimensions (W) x (D) x (H)	138.5 x 89.0 x 8.5 mm (5 9/16" x 3 5/8" x 3/8")
Weight	63 g (2.2 oz)

Note: In addition to a plug-in editor for XGworks, DX Easy Editor exclusively for XG-compatible platforms such as the MU128 and SW1000XG/P is included.

Virtual Acoustic Plug-in Board

PLG150-VL



The Virtual Acoustic plug-in board lets you create incredibly expressive, natural-sounding voices by digitally simulating the physical characteristics of acoustic instruments. Along with its superior ability to emulate real-life wind, brass and string instruments, this plug-in board lets you create imaginary "virtual" musical instruments. Thanks to its fabulous synthesis architecture, extensive realtime performance control of the voices is possible, making it the ideal plug-in board for keyboard soloists. Furthermore, this plug-in board is fully compatible with VL-XG song data, which allows for incredibly expressive and realistic playback of sequenced wind and string instrument parts.

VL Visual Editor



Tone Generator Type	SVA (Self-oscillating Virtual Acoustic Synthesis)
Polyphony	Synthesis
Voices	1 note monophonic 256 Preset
Interface	70 User
Accessories	Plug-in Connector (15-pin digital I/F connector) CD-ROM (VL Visual Editor), FD (Demonstration Songs, Plug-in Voice Data for the MU128)
Dimensions (W) x (D) x (H)	CS6x/CS6R/S80/S30, Performance Data for the MU128
Weight	138.5 x 89.0 x 8.5 mm (5 9/16" x 3 5/8" x 3/8") 56 g (2.0 oz)

Note: VL Visual Editor for Windows® is a plug-in for XGworks sequencing software. VL Visual Editor for Macintosh® is a stand-alone application.

YG Plug-in Board PLG100-XG



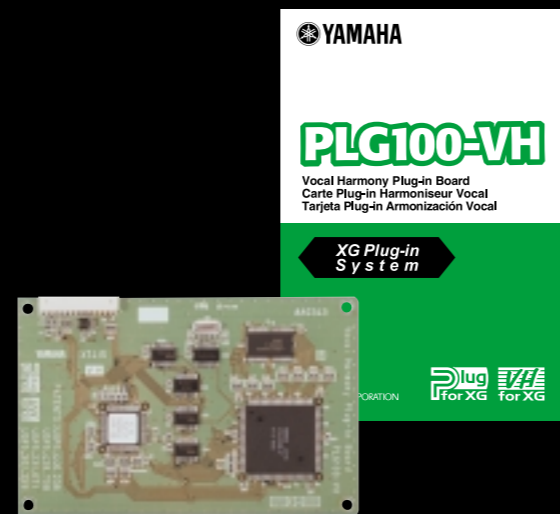
Add XG and General MIDI compatibility to your existing synthesizer! This modular synthesis plug-in board gives you over 400 professional-quality sampled voices, from bread-and-butter instruments to familiar sound effects, as well as 12 extraordinary drum kits. Plus it provides 32 additional notes of polyphony and 16 extra multitimbral parts, allowing for the creation of fully orchestrated sequences. And because it supports the XG MIDI standard, you can use it to faithfully play back XG or General MIDI files using a MIDI sequencer. Home recording hobbyists in particular will find this plug-in board an indispensable addition to an existing keyboard setup.

XGworks lite V3.0



Tone Generator Type	AWM2
Polyphony	32 notes
Voices	480 Preset + 12 Drum Kits
Effects	Reverb, Chorus, Variation
Connector	Plug-in Connector (15-pin digital I/F connector)
Accessories	CD-ROM (XGworks lite V3.0, XG Editor for Mac), FD (Demonstration Songs)
Dimensions (W) x (D) x (H)	138.5 x 89.0 x 8.5 mm (5 9/16" x 3 5/8" x 3/8")
Weight	56 g (2.0 oz)

Vocal Harmony Plug-in Board PLG100-VH



Designed to work in conjunction with the A/D input of the host synthesizer in which it's installed, the PLG100-VH adds powerful harmony and vocoder effects to your voice. Simply plug a microphone into the A/D input and sing—any chords you play on the keyboard will translate into a beautiful vocal harmony backup (up to four parts including your original voice). The PLG100-VH includes a vibrato effect that automatically adds a warm, natural vibrato to your voice, as well as a "gender change" function that can make a low male voice sound like a female voice (or vice versa). Harmony intervals and vocoder melodies can be recorded in a sequencing track for automated playback—ideal for live performers and home recording artists alike.

VH Effect Editor



Maximum Harmony	3 voices
Effects	Vocoder Harmony, Detune Harmony, Chordal Harmony, Chromatic Harmony
Voice Control	Gender change (male → female, female → male), Vibrato, Volume, Pan, Detune
Interface	Plug-in Connector (15-pin digital I/F connector)
Dimensions (W) x (D) x (H)	138.5 x 89.0 x 8.5 mm (5 9/16" x 3 5/8" x 3/8")
Weight	53 g (1.9 oz)

Platforms for the Modular Synthesis Plug-in System

Music Synthesizer

S80

2
EXPANSION
SLOTS



- 88-key synthesizer with true piano action and 64-note polyphony.
- Incredible-sounding pianos—including stereo-sampled pianos—as well as many other essential voices.
- Two expansion slots for Modular Synthesis Plug-in System boards.
- XGworks lite V3.0 sequencing software bundled.

Music Synthesizer

S30

1
EXPANSION
SLOT



- Same outstanding sounds and features as the S80 in a compact, 61-key synth.
- Expressive "multi-mode" filters.
- 64-note polyphony and 17 multitimbral parts (16 + 1 plug-in).
- One expansion slot for Modular Synthesis Plug-in System boards.
- Built-in arpeggiator and SMF playback sequencer.

NOTE: The S30 cannot be used with the PLG100-VH plug-in board since it is not equipped with A/D inputs.

Control Synthesizer

CS6x

2
EXPANSION
SLOTS



- 19 parameter knobs (14 preset and 5 assignable) for ultimate realtime sound control.
- 384 voices and 10 drum kits including a huge selection of cutting-edge sounds designed especially for today's dance-oriented music.
- Phrase clip sampling capability allows easy creation of drum loops and other rhythmic grooves.
- Two expansion slots for Modular Synthesis Plug-in System boards.
- XGworks lite V3.0 sequencing software bundled.

PCI AUDIO MIDI CARD

SW1000XG/P

1
EXPANSION
SLOT



- Top-quality XG tone generator and hard disk recording functions on a single PCI card.
- One expansion slot for Modular Synthesis Plug-in System boards.
- Seamless integration with Yamaha XGworks sequencing software and sequencing software from other major manufacturers.
- XGworks for SW1000 sequencing software bundled.

NOTE: Please make sure that your SW1000XG has a letter P (SW1000XG/P) printed clearly on the box, and on the silver backplate of the card itself. It signifies that the card is PLG150 compatible. If not, you may update the SW1000XG by sending the free update ticket included in the PLG150 series package to your local Yamaha subsidiaries.

Tone Generator

CS6R

2
EXPANSION
SLOTS



- Same amazing voices of the CS6x in a 2-space rackmount synthesizer.
- Phrase sampling capability for creating drum loops and other rhythmic grooves.
- Five assignable parameter knobs for realtime sound control.
- Two expansion slots for Modular Synthesis Plug-in System boards.
- XGworks lite V3.0 sequencing software bundled.

Tone Generator

MU128

3
EXPANSION
SLOTS



- Extraordinary expressive power with 64 parts and 128-note polyphony.
- Three expansion slots for Modular Synthesis Plug-in System boards.
- State-of-the-art sound and features for modern music production.
- XGworks lite V1.0 sequencing software bundled.