



Synthesizers.com

STUDIO SYSTEMS

Studio-66

Studio systems from Synthesizers.com offer traditional styling, infinite expandability and a powerful sound. Choose from a variety of pre-configured systems, or design your own.

- ▶ Available pre-configured or custom
- ▶ Solid walnut cabinetry
- ▶ For the studio or live performances
- ▶ Rock-solid oscillators
- ▶ Mind-blowing sequencers
- ▶ Easily expandable
- ▶ Move modules anywhere you wish
- ▶ 15-year proven track record



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Studio-22

The Studio-22 system offers a complete three-oscillator analog machine along with a state-variable filter, two envelope generators, two amplifiers, ring modulator, MIDI interface, and more. Patch cables are included. Easy to expand by adding cabinets and modules.

Solid Walnut

Studio cabinets are made with solid walnut and finished to perfection. Worthy of a studio, a living room, or a flight case.



Studio-110

Expandable

Modular systems are easily expanded by adding cabinets and modules.

The sky isn't even a limit!



Controllers

Add a matching keyboard controller bundle to complete your system. Wheels, pressure sensors, thumbsticks and more.



MARC HAN RUMMING

Portable-33



Rugged Vinyl

Portable cabinets are built from strong fiberboard and covered in durable vinyl. Metal corners, metal edges, a handle and rubber feet.

Module Spaces

The system name indicates the number of module spaces. For example, a Portable-44 offers 44 spaces. Some modules consume just 1 space, some consume more.

Lids



Portable-11

The Portable-11 is a compact two-oscillator synthesizer with a Q150 Moog-style Ladder filter. Power and affordability in a small package. Patch cables and power supply included.

Sonic Power

Portable systems offer the same expandability and sonic quality as our studio systems, all in a tote-able package.



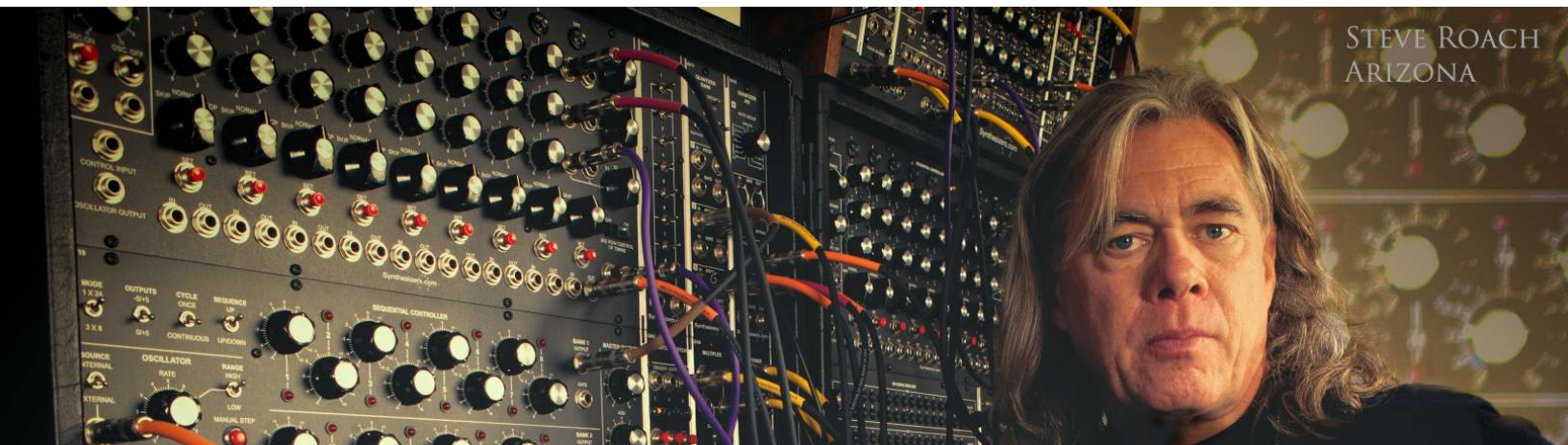
Portable-66

PORTABLE SYSTEMS

Portable systems offer rugged construction along with the flexibility only a modular can provide. Available in several standard configurations, or create your own.

- ▶ Strong MDF (Fiberboard) construction
- ▶ Metal hardware
- ▶ For the studio or live performances
- ▶ 11 and 22-space cabinets
- ▶ Control with MIDI or Pitch/Gate signals
- ▶ Easy to expand
- ▶ Optional hinges and latches, and lids
- ▶ Unsurpassed customer service

STEVE ROACH
ARIZONA



BOX11 SYSTEMS

Box11 cabinets provide 11 module spaces in a strong, lightweight metal frame. Unique solid walnut side panel designs allow stacking in many different configurations. Thumbscrews make it easy to change things around. Select from our pre-configured Box11 systems or dream up your own.

- ▶ Metal framing and solid walnut side panels
- ▶ For the studio or live performances
- ▶ As small or as large as you want
- ▶ Stack cabinets in unlimited configurations
- ▶ Quality and dependability you can count on



Box22s

Synthesizers.com



Box11

The Box11 system offers a compact two-oscillator synthesizer with a Moog-style Ladder filter. Patch cables are included. Box11 cabinets make it easy to grow.



Box11 Cabinet Features

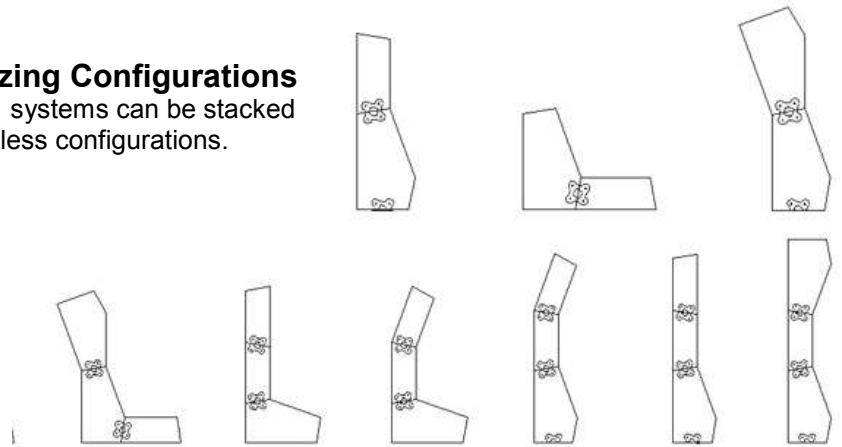
Box11 cabinets have built-in multiples and a built-in power harness. This saves module space leaving more room for goodies.



Box66

Amazing Configurations

Box11 systems can be stacked in endless configurations.



Rack-24



RACK SYSTEMS

Rack systems are built with our standard 19" rack frames, each being 5U high and providing eight module spaces.

- ▶ Strong all-metal construction
- ▶ 5U tall, 8 module spaces wide
- ▶ Module and frame screws included
- ▶ User must provide rack and enclose power supply
- ▶ Select a standard configuration or build your own



Entry System Plan



Patch Cables

As with all of our pre-configured systems, the entry system includes patch cables.



ENTRY SYSTEMS

Our Entry System Purchase Plan is your ticket to an affordable modular synthesizer. Pay monthly and get products as you go.

- ▶ Monthly pay-as-you-go plan
- ▶ 22 module spaces in the front, 4 in the back
- ▶ Strong MDF (Fiberboard) construction
- ▶ Enough power for 66 spaces
- ▶ Easily expandable
- ▶ Do your own custom paint or vinyl
- ▶ Control with MIDI or Pitch/Gate signals
- ▶ Pay multiple months to get products ahead of schedule

ANGELO METZ



CONTROLLERS

Your modular synthesizer gives you maximum flexibility, so why not the controller? At Synthesizers.com, we take modularity to its logical conclusion by offering a complete line of controllers that are completely modular.

Quality semi-weighted keyboard actions with velocity and pressure sensitivity. These are not your typical store-bought controllers. Metal frames and solid walnut ends.

Box-style cabinets are available in 1, 2 and 4 spaces, and can be attached to a keyboard or used stand-alone.

Select from our pre-configured controller bundles or build your own in any configuration.

Our modular controllers are a perfect fit for Studio, Portable, Box11, or any other modular system



Whammy bar

Modules on the back or install a walnut top

Box cabinets hold wheels and other controllers



Solid walnut

37 or 61 keys

Up to 4 virtual splits

Semi-weighted keys with velocity and pressure sensing

Synthesizers.com

Wheels, thumbsticks, pressure sensors, and more

Box1,2,4 cabinets



Walnut top



Dual



CONTROLLERS

This example shows dual wheels mounted vertically along with a ThumbStick controller in a Box4 cabinet.



Synthesizers.com

Our controller offerings include standards like pitch and modulation wheels, but also include many unorthodox options for the experimental synthesist.

These controllers follow the MU format (Moog Unit) and fit nicely into our Box1,2,4 cabinets next to your keyboard. They can also be placed in a synthesizer cabinet just like any other module.

Each controller has a selectable range output along with a programmable Gate produced as you move the controller.

Wheels, Expression Block and Whammy Bar have end-of-travel switches that produce a special Gate signal that can be used to trigger sequencers, envelopes or switches.

Controllers with LEDs are programmable for different colors that change as they are moved.

Wheels



Ribbon



Expression Block



Whammy Bar



Pressure



Guitar Switches



Knob/Pressure



ThumbStick



Joystick



Essential Modules

These modules are essential for creating sound in a synthesizer. They provide the basic building blocks necessary to construct a waveform, control pitch, filter harmonics and control amplitude.



Q106 Oscillator

The Q106 Oscillator is the foundation of any synthesizer providing the basic waveforms used to construct sounds. Precise range switching and rock-solid stability. Also acts as a full-featured LFO for modulation.



Q112 Mixer

Combines audio or modulation signals. Typically used to mix several oscillators together to produce thick waveforms rich in harmonics.



Q124 Multiples

Provides patch points for sending a signal to multiple destinations. Deliver pitch to many oscillators and gate to many envelope generators.



Q107 Filter

The basis of subtractive synthesis is the removal of harmonics and the Q107 Filter does an amazing job of this. Voltage control of both frequency and resonance along with on-board mixing. All filter responses available simultaneously.



Q108 Amplifier

Provides voltage control of an audio or modulation signal's amplitude. Linear and exponential responses along with on-board mixing. Normal and inverted outputs.



Q109 Envelope Generator

Produces a voltage that changes over time. Used to control filters, amplifiers, oscillators and more.

Aid Modules

Aid modules add features to a module without forcing you to buy what you don't want or have space for.

Interfacing

These modules connect your synthesizer to external devices.



Q174 MIDI Interface

Converts MIDI to pitch and gate signals to control your analog system. Pressure and velocity outputs. Two channels with complete control over note and gate priority. Add the Q175 Aid for an arpeggiator and portamento features.



Q118 Instrument Interface

Process audio from external devices through your system. Amplifies the incoming signal and produces a gate which can be used to trigger envelopes and sequencers.



Q142 Pedal Interface

Control any parameter using a typical variable or switch foot pedal. Two channels.

Filtering

Controlling harmonics is where the magic of subtractive synthesis happens. We offer a variety of filters to give you complete control of timbre, from subtle to outlandish.



Q150 Ladder Filter

Modeled after Bob Moog's famous filter, the Q150 produces that special sound heard on so much music for decades. Built-in control voltage inverter and attenuator along with on-board mixing.

Support the **Bob Moog Foundation**
<http://moogfoundation.org>



Q127 Filter Bank

This array of 12 bandpass filters, a low pass and a high pass and you manual control of a signal's harmonics. Make subtle changes to produce exactly what you want.

Utility Modules



Q117 Sample & Hold

Captures a control voltage and holds it under control of the internal oscillator or an external gate. A key building block of many special effects.



Q125 Signal Processor

Attenuate, amplify, offset and invert control voltages with a single module. Two channels.



Q128 Switch

Switch audio, gate and control signals under voltage control. Two channels.



There's much more...
 Synthesizers.com offers a wide range of modules not shown here. Check out our website.

Sequencing

We offer two sequencers - the Q960 which is modeled after the Moog 8-stage sequential controller and the Q119 which is a true 24-stage sequencer. Each has different features and abilities. We also offer several utility modules to enhance sequencing.

Q960 Sequential Controller



Q962 Switch

Select rows from the Q960



Q963 Trigger Bus

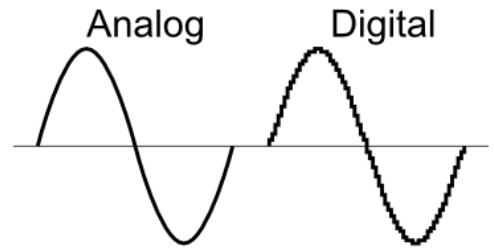
Merge gates into a single stream



Q171 Quantizer

Confine voltages into useful notes





Analog is Real

Analog audio is continuously variable, not comprised of discrete steps calculated in a computer by a programmer. Analog is real electrons flowing through resistors, capacitors and transistors acting together to make sound in real time. Analog systems still exist in this digital age for a reason - they sound fantastic.

Subtractive Synthesis is Natural

Subtractive synthesis is the technique of starting with a harmonic-rich signal then filtering to get a final result. This is the way many natural sounds we hear are created, including the human voice.

Modularity is Freedom

A modular synthesizer gives you the freedom to create your own custom instrument and sounds by patching, by changing parameters, and by moving modules and adding new ones. Arrange modules as you see fit and stack cabinets however you'd like.

Patch-ability is Power

With a modular, you're not trapped into a standard signal and modulation chain decided by an engineer and a sales committee. You can patch anything to anything, whether it's considered normal or not. Rules? We don't need no stinking rules.

One Connector for All

In a Synthesizers.com modular, all signals use the same type of connector - audio, control voltages, pitch voltages and gates. This encourages outside-the-box creativity and makes patching more intuitive. Create gate signals with an oscillator or clip an envelope for added punch - things not easily done in a tame normalized synthesizer. We use full-size 1/4" plugs.



The Magic of Voltage Control

Knobs and buttons give you manual control of parameters, but voltage control allows a signal on a patch cable to change those parameters. Voltage control lets you automate filter sweeps, create evolving sequences and gives you precise control over everything. It feels like magic.

Monophonic-ness

Modular patchable synthesizers are inherently monophonic meaning only one note plays at a time. This might sound limiting at first, but a modular's sound is very big and can be comprised of many oscillators, filters, complicated effects, layers and arpeggiations.

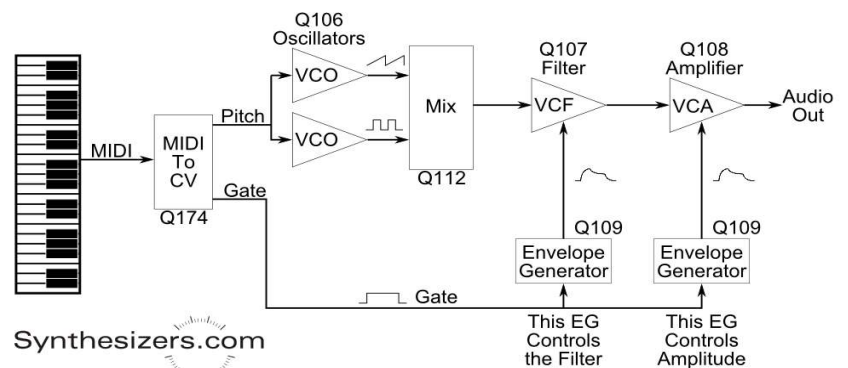


The Basic Synthesizer Patch

This basic patch is the "hello world" program of a modular synthesizer. From this, you can build and expand into a more complex sound by adding modules and changing the signal path.

First, the keyboard creates MIDI note messages. The Q174 module converts those messages into a pitch voltage that represents which key is pressed, and a gate signal that indicates when a key is pressed and released. From there, the pitch voltage sets the pitch of the oscillators (VCOs). Oscillator waveforms are mixed together and sent to the filter (VCF) to remove harmonics, then on to the amplifier (VCA) where the amplitude is controlled. The filter setting and the amplifier settings are controlled by envelope generators that are triggered by the gate signal.

Basic Synthesizer Patch



You can do a lot with this basic patch just by changing parameters via controls on the modules, but the fun grows when you start adding more modules to control things in different ways. Once you learn the simple function of each module, it becomes natural to stack the blocks in new and interesting ways. Don't worry, you can't break anything. The journey is the destination.

Patch Cables

Color-coded 1/4" patch cables match the high-quality standards of our systems. Available in 1,2,3,4,6' lengths. Shielded cable and metal connectors. Built to last.



MIDI Cables

High-quality MIDI cables with color-coded sleeves and metal connectors.



Refrigerator magnets



QHL Cable Holder

A patch cable holder like no other. Holds up to 156 patch cables, MIDI cables, or power cables. Rotates for easy access to all cables. Mounts to a standard microphone stand. Perfect for organizing your modular synthesizer and studio.



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Parts

We carry a variety of replacement parts to maintain your system. Knobs, lamps, screws, jacks and more.

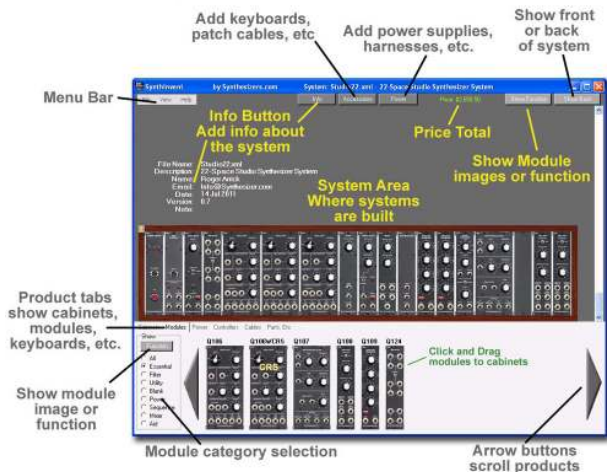


QHS Cable Holder

A heavy-duty patch cable holder designed to mount to the wall or to the side of your synthesizer. Holds 36 patch cables, MIDI cables, or power cables.

SYNTHINVENT

SynthInvent is a program that lets you build a custom system by simply dragging cabinets and modules. It automatically calculates power consumption and produces a price total. See our website for details.



SPREADSHEET

Build a product list using our spreadsheet - complete with pricing, module space calculation and links to each product. See the pricing page on our website to download it.

System	Description	Price	Quantity	Total	Wght	ms@1157	ms@1157
7	Thunder-22 22-Space Studio System	\$2,988.00	1	\$2,988.00	0		
8	Thunder-44 44-Space Studio System	\$5,976.00	1	\$5,976.00	0		
9	Thunder-66 66-Space Studio System	\$8,964.00	1	\$8,964.00	0		
10	Thunder-88 88-Space Studio System	\$11,952.00	1	\$11,952.00	0		
11	Thunder-110 110-Space Studio System	\$14,940.00	1	\$14,940.00	0		
12							
13	Portable-11 11-Space Portable System	\$1,674.00	1	\$1,674.00	0		
14	Portable-19 19-Space Portable System	\$3,328.00	1	\$3,328.00	0		
15	Portable-176 176-Space Sequencing System	\$1,716.00	1	\$1,716.00	0		
16	Portable-176 176-Space Sequencing System	\$1,716.00	1	\$1,716.00	0		
17	Portable-22 22-Space Portable System	\$2,881.00	1	\$2,881.00	0		
18	Portable-22 22-Space Portable System	\$2,881.00	1	\$2,881.00	0		
19	Portable-44 44-Space Portable System	\$5,762.00	1	\$5,762.00	0		
20	Portable-44 44-Space Portable System	\$5,762.00	1	\$5,762.00	0		
21	Portable-88 88-Space Portable System	\$11,524.00	1	\$11,524.00	0		
22							
23	Box-11 11-Space Box11 System	\$1,644.00	1	\$1,644.00	0		
24	Box-19 19-Space Box11 Processing System	\$1,378.00	1	\$1,378.00	0		
25	Box-19 19-Space Box11 Sequencing System	\$1,716.00	1	\$1,716.00	0		
26	Box-176 176-Space Box11 Sequencing System	\$1,364.00	1	\$1,364.00	0		
27	Box-22 22-Space Box11 System	\$2,816.00	1	\$2,816.00	0		
28	Box-22 22-Space Box11 System	\$2,816.00	1	\$2,816.00	0		
29	Box-22 22-Space Box11 System	\$2,816.00	1	\$2,816.00	0		
30	Box-44 44-Space Box11 System	\$5,632.00	1	\$5,632.00	0		
31	Box-44 44-Space Box11 System	\$5,632.00	1	\$5,632.00	0		
32	Box-88 88-Space Box11 System	\$11,264.00	1	\$11,264.00	0		
33							
34	Back-8 8-Space Back System	\$1,988.00	1	\$1,988.00	0		
35	Back-24 24-Space Back System	\$2,820.00	1	\$2,820.00	0		
36	Empy-22-1 22-Space Empty System Plan #1 (1 Month) Aes 9/15/2014	\$155.00	1	\$155.00	0		
37	Empy-22-1 22-Space Empty System Plan #1 (1 Month) Aes 9/15/2014	\$155.00	1	\$155.00	0		
38							
39							
40							
41	KEY-27A Controller Bundle, 27 Keys, 2 Wheels, Thunderstick, Whammy, Wahua	\$1,362.00	1	\$1,362.00	0		
42	KEY-17A Controller Bundle, 17 Keys, 2 Wheels, Thunderstick, Whammy, Wahua	\$1,432.00	1	\$1,432.00	0		
43	KEY-27B Controller Bundle, 27 Keys, Dual, Wahua	\$414.00	1	\$414.00	0		
44	KEY-17B Controller Bundle, 17 Keys, Dual, Wahua	\$414.00	1	\$414.00	0		
45	KEY-17C Controller Bundle, 17 Keys, Q114 MIDI Interface, Wahua	\$882.00	1	\$882.00	0		
46	KEY-17C Controller Bundle, 17 Keys, Q114 MIDI Interface, Wahua	\$882.00	1	\$882.00	0		

Q167 LFO++

The Q167 LFO++ is a Low Frequency Oscillator like no other. This functionally-dense module creates complex modulation with decaying and rising amplitudes and/or frequencies.

A variety of common and unusual waveforms are provided including a pure sine, anti-sine, triangle, ramp, saw, square and curved versions. Polarity control and the ability to create 5v gates.

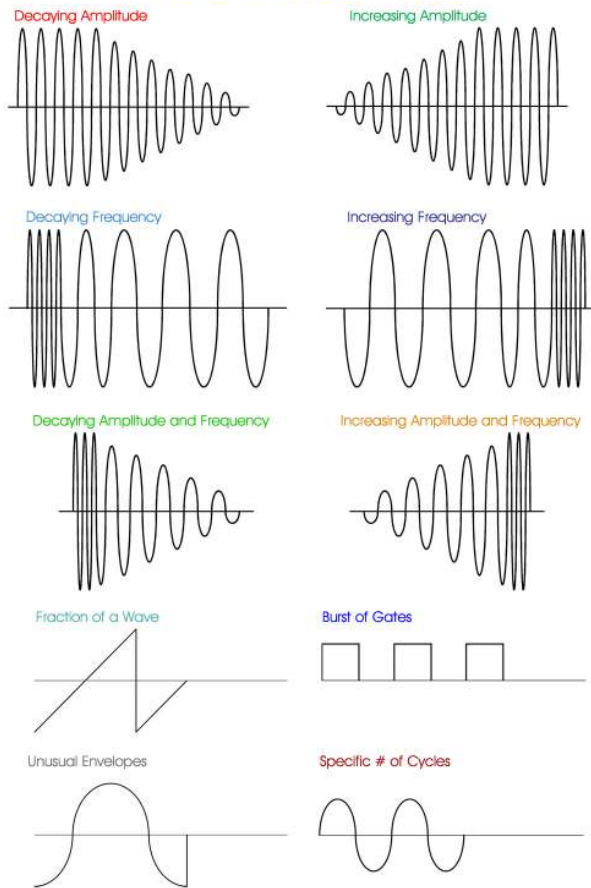
Direct patch points for frequency and amplitude make it easy to control modulation with a wheel, keyboard pressure or a sequencer.

The built-in envelope generator provides control over sustain time to produce delayed modulation, part of a waveform cycle, or a burst of waves useful for sequencer patches.

The Q167 LFO++ is also a full-featured audio oscillator with precise 1V/Octave response.

Cross-patch two Q167 modules together for mind-bending FM and AM sounds.

The Q167 is four modules in one and uses only silky-smooth analog circuitry!



RP20 RIBBON CONTROLLER

The RP20 is a position and pressure-sensitive ribbon controller capable of replacing or augmenting a traditional keyboard in an analog system. The RP20 can be held like a guitar, played from the desktop, or mounted to our modular keyboard controllers.

The RP20's sensor is 20" long and produces a voltage for the position of your finger and a voltage for the pressure you're applying. These voltages are produced using analog circuitry and change smoothly and naturally as you play.

Both position and pressure signals have adjustable ranges using our Q182 dual controller interface module. When the position sensor is set to the 2 volt range, the ribbon can be played like a keyboard, complete with a template showing white and black keys. The 4/12th volt range is useful for pitch bending of +/-2 semitones, and the 5-volt range can be used for wide filter or pitch sweeps.



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