



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



### 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.



## Portable-33



### Rugged Vinyl

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

### 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.

# PORTABLE SYSTEMS

Portable systems offer rugged construction along with the flexibility only a modular can offer. 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
- ▶ Unsurpassed customer service



### 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

# 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 a variety of ways
- ▶ 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

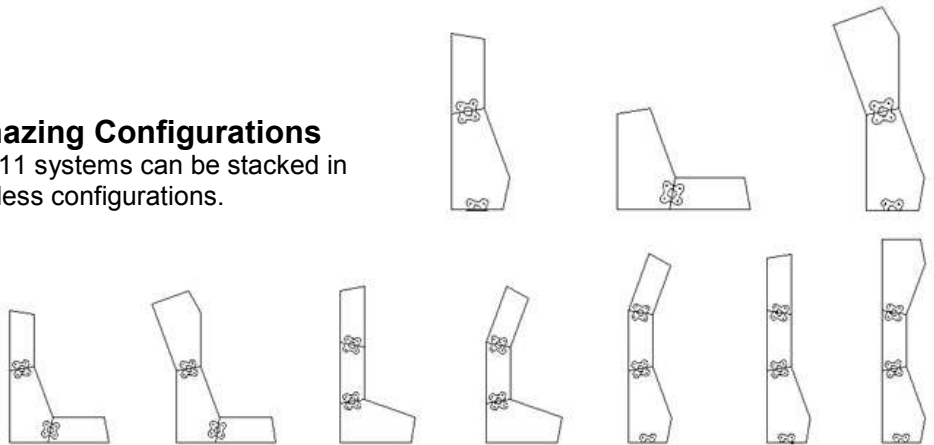
Box11 cabinets have built-in multiples and a built-in power harness. This saves module space leaving more room for goodies.



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



# 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
- ▶ Control with MIDI or Pitch/Gate signals
- ▶ Pay multiple months to get products ahead of schedule

### Patch Cables

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



# 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



Modules on the back or install a walnut top

Box cabinets hold wheels and other controllers



Whammy bar

Solid walnut

37 or 61 keys

Up to 4 virtual splits

Semi-weighted keys with velocity and pressure sensing

Synthesizers.com



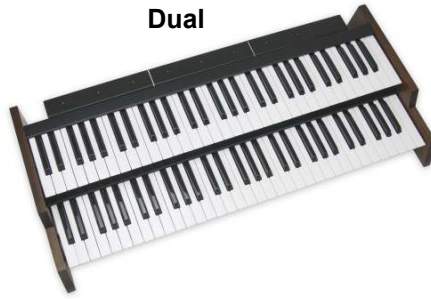
Wheels, thumbsticks, pressure sensors, and more

Box 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 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.



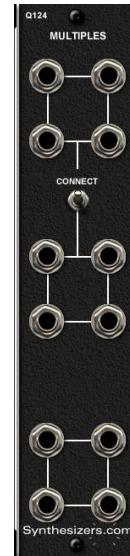
### Q106 Oscillator

The Q106 Oscillator is the foundation of any synthesizer providing the basic waveforms used to construct sounds. Precise range switching and rock-solid stability. 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 expo responses along with on-board mixing. Normal and inverted outputs.



### Q109 Envelope Generator

Produces a voltage envelope 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 the cornerstone of subtractive synthesis. 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.



### Q127 Filter Bank

This array of 12 bandpass filters, a low pass and a high pass filter gives 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

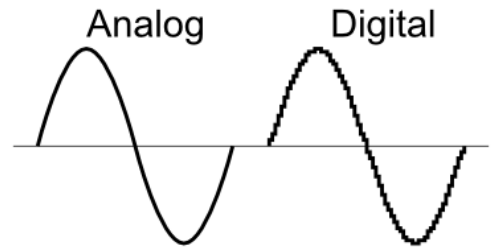
Confine voltages into useful notes



# TUTORIAL

## 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 - the sound.



## 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's magic.

## Monophonic-ness

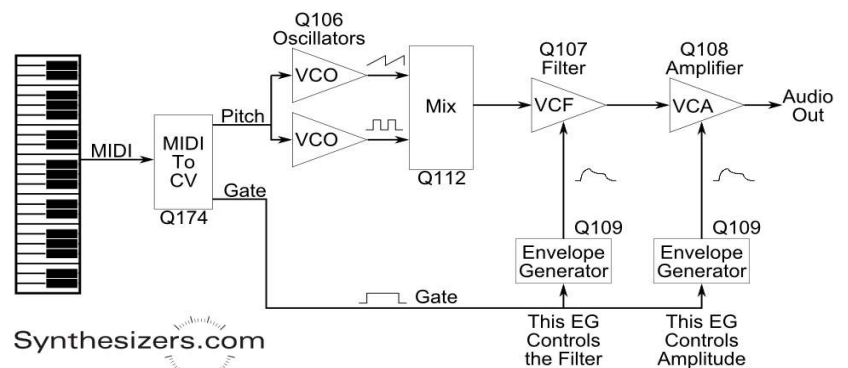
Modular patchable synthesizers are inherently monophonic meaning only one note plays at a time. This might sound limiting at first, but a modular's sound is very big and can be comprised of many oscillators, filters, complicated effects, layers and arpeggiations.

## 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.



## Parts

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



## Shirts and Gifts

Check out the Synthesizers.com website for our latest T-Shirt design and gifts. We also offer gift certificates.

## 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.



Synthesizers.com

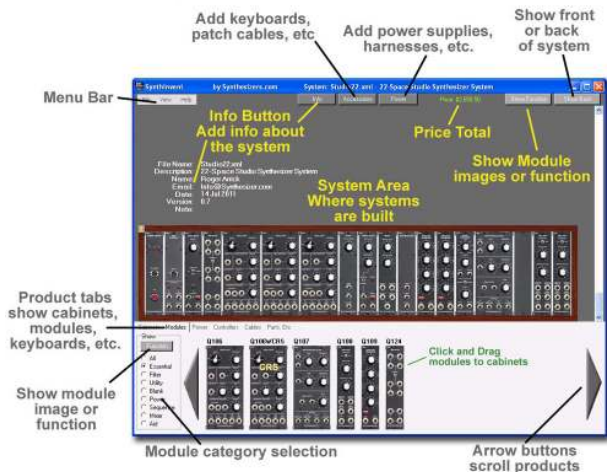


## QHS Cable Holder

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	Wt	Vol	msb	msb	msb
1	System								
2	Panel								
3	Panel-02	22 Space Studio System	52	\$2,884.00	0	0	0	0	0
4	Panel-04	44 Space Studio System	2	\$2,884.00	0	0	0	0	0
5	Panel-08	88 Space Studio System	1	\$8,352.00	0	0	0	0	0
6	Panel-16	176 Space Studio System	1	\$14,832.00	0	0	0	0	0
7	Panel-32	352 Space Studio System	1	\$29,664.00	0	0	0	0	0
8	Panel-64	704 Space Studio System	1	\$59,328.00	0	0	0	0	0
9	Panel-128	1408 Space Studio System	1	\$118,656.00	0	0	0	0	0
10	Panel-256	2816 Space Studio System	1	\$237,312.00	0	0	0	0	0
11	Panel-512	5632 Space Studio System	1	\$474,624.00	0	0	0	0	0
12	Panel-1024	11264 Space Studio System	1	\$949,248.00	0	0	0	0	0
13	Panel-2048	22528 Space Studio System	1	\$1,898,496.00	0	0	0	0	0
14	Panel-4096	45056 Space Studio System	1	\$3,796,992.00	0	0	0	0	0
15	Panel-8192	90112 Space Studio System	1	\$7,593,984.00	0	0	0	0	0
16	Panel-16384	180224 Space Studio System	1	\$15,187,968.00	0	0	0	0	0
17	Panel-32768	360448 Space Studio System	1	\$30,375,936.00	0	0	0	0	0
18	Panel-65536	720896 Space Studio System	1	\$60,751,872.00	0	0	0	0	0
19	Panel-131072	1441792 Space Studio System	1	\$121,503,744.00	0	0	0	0	0
20	Panel-262144	2883584 Space Studio System	1	\$243,007,488.00	0	0	0	0	0
21	Panel-524288	5767168 Space Studio System	1	\$486,014,976.00	0	0	0	0	0
22	Panel-1048576	11534336 Space Studio System	1	\$972,029,952.00	0	0	0	0	0
23	Panel-2097152	23068672 Space Studio System	1	\$1,944,059,904.00	0	0	0	0	0
24	Panel-4194304	46137344 Space Studio System	1	\$3,888,119,808.00	0	0	0	0	0
25	Panel-8388608	92274688 Space Studio System	1	\$7,776,239,616.00	0	0	0	0	0
26	Panel-16777216	184549376 Space Studio System	1	\$15,552,479,232.00	0	0	0	0	0
27	Panel-33554432	369098752 Space Studio System	1	\$31,104,958,464.00	0	0	0	0	0
28	Panel-67108864	738197504 Space Studio System	1	\$62,209,916,928.00	0	0	0	0	0
29	Panel-134217728	1476395008 Space Studio System	1	\$124,419,833,856.00	0	0	0	0	0
30	Panel-268435456	2952790016 Space Studio System	1	\$248,839,667,712.00	0	0	0	0	0
31	Panel-536870912	5905580032 Space Studio System	1	\$497,679,335,424.00	0	0	0	0	0
32	Panel-1073741824	11811160064 Space Studio System	1	\$995,358,670,848.00	0	0	0	0	0
33	Panel-2147483648	23622320128 Space Studio System	1	\$1,990,717,341,696.00	0	0	0	0	0
34	Panel-4294967296	47244640256 Space Studio System	1	\$3,981,434,683,392.00	0	0	0	0	0
35	Panel-8589934592	94489280512 Space Studio System	1	\$7,962,869,366,784.00	0	0	0	0	0
36	Panel-17179869184	188978561024 Space Studio System	1	\$15,925,738,733,568.00	0	0	0	0	0
37	Panel-34359738368	377957122048 Space Studio System	1	\$31,851,477,467,136.00	0	0	0	0	0
38	Panel-68719476736	755914244096 Space Studio System	1	\$63,702,954,934,272.00	0	0	0	0	0
39	Panel-137438953472	1511828488192 Space Studio System	1	\$127,405,909,868,544.00	0	0	0	0	0
40	Panel-274877906944	3023656976384 Space Studio System	1	\$254,811,819,737,088.00	0	0	0	0	0
41	Panel-549755813888	6047313952768 Space Studio System	1	\$509,623,639,474,176.00	0	0	0	0	0
42	Panel-1099511627776	12094627905536 Space Studio System	1	\$1,019,247,278,948,352.00	0	0	0	0	0
43	Panel-2199023255552	24189255811072 Space Studio System	1	\$2,038,494,557,896,704.00	0	0	0	0	0
44	Panel-4398046511104	48378511622144 Space Studio System	1	\$4,076,989,115,793,408.00	0	0	0	0	0
45	Panel-8796093022208	96757023244288 Space Studio System	1	\$8,153,978,231,586,816.00	0	0	0	0	0
46	Panel-17592186444416	193514046488576 Space Studio System	1	\$16,307,956,463,173,632.00	0	0	0	0	0
47	Panel-35184372888832	387028092977152 Space Studio System	1	\$32,615,912,926,347,264.00	0	0	0	0	0
48	Panel-70368745777424	774056185954304 Space Studio System	1	\$65,231,825,852,694,528.00	0	0	0	0	0
49	Panel-140737491548848	1548112371908608 Space Studio System	1	\$130,463,651,705,389,056.00	0	0	0	0	0
50	Panel-281474983097728	3096224743817216 Space Studio System	1	\$260,927,303,410,778,112.00	0	0	0	0	0
51	Panel-562949966195456	6192449487634432 Space Studio System	1	\$521,854,606,821,556,224.00	0	0	0	0	0
52	Panel-1125899932908928	12384898975268864 Space Studio System	1	\$1,043,709,213,643,112,448.00	0	0	0	0	0
53	Panel-22517998658177728	24769797950537728 Space Studio System	1	\$2,087,418,427,286,224,896.00	0	0	0	0	0
54	Panel-45035997316355456	49539595901075456 Space Studio System	1	\$4,174,836,854,572,449,792.00	0	0	0	0	0
55	Panel-90071994632710912	99079191802150912 Space Studio System	1	\$8,349,673,709,144,899,584.00	0	0	0	0	0
56	Panel-180143989265421824	198158383604301824 Space Studio System	1	\$16,699,346,418,289,798,168.00	0	0	0	0	0
57	Panel-360287978530843648	396316767208603648 Space Studio System	1	\$33,398,692,836,579,596,336.00	0	0	0	0	0
58	Panel-720575957061687296	792633534417207296 Space Studio System	1	\$66,797,385,673,159,192,672.00	0	0	0	0	0
59	Panel-1441151914123574528	1585267068834414528 Space Studio System	1	\$133,594,771,346,318,385,344.00	0	0	0	0	0
60	Panel-2882303828247149056	3170534137668829056 Space Studio System	1	\$267,189,542,692,636,770,688.00	0	0	0	0	0
61	Panel-5764607656494298112	6341068275337658112 Space Studio System	1	\$534,379,085,385,273,541,376.00	0	0	0	0	0
62	Panel-11529215312988596224	12682136550675316224 Space Studio System	1	\$1,068,758,170,770,547,082,752.00	0	0	0	0	0
63	Panel-23058430625977192448	25364273101350632448 Space Studio System	1	\$2,137,516,341,541,094,165,504.00	0	0	0	0	0
64	Panel-46116861251954384896	50728546202701264896 Space Studio System	1	\$4,275,032,683,082,188,331,008.00	0	0	0	0	0
65	Panel-92233722503908769792	101457092405402529792 Space Studio System	1	\$8,550,065,366,163,776,662,016.00	0	0	0	0	0
66	Panel-184467445007815159584	202914184810805059584 Space Studio System	1	\$17,100,130,732,327,553,324,032.00	0	0	0	0	0
67	Panel-368934890015630319168	405828369621610119168 Space Studio System	1	\$34,200,261,464,655,106,648,064.00	0	0	0	0	0
68	Panel-737869780031260238336	811656739243220238336 Space Studio System	1	\$68,400,522,929,310,213,296,128.00	0	0	0	0	0
69	Panel-1475739560062520476672	1623313478486440476672 Space Studio System	1	\$136,801,045,858,620,426,592,256.00	0	0	0	0	0
70	Panel-2951479120125040953344	3246626956972880953344 Space Studio System	1	\$273,602,091,717,240,853,185,504.00	0	0	0	0	0
71	Panel-5902958240250081906688	6493253913945761906688 Space Studio System	1	\$547,204,183,434,481,707,371,008.00	0	0	0	0	0
72	Panel-11805916480500163813376	12986507827891523813376 Space Studio System	1	\$1,094,408,366,868,963,414,742,016.00	0	0	0	0	0
73	Panel-23611832961000327626752	25973015655783047626752 Space Studio System	1	\$2,188,816,733,737,926,829,484,032.00	0	0	0	0	0
74	Panel-47223665922000655253504	51946031311566095253504 Space Studio System	1	\$4,377,733,467,475,853,658,968,064.00	0	0	0	0	0
75	Panel-94447331844001311111104	103892062623132190507008 Space Studio System	1	\$8,755,466,934,951,707,317,937,936.00	0	0	0	0	0
76	Panel-188894663688002622222208	207784125246264381014016 Space Studio System	1	\$17,510,933,869,903,414,635,872.00	0	0	0	0	0
77	Panel-377789327376005244444416	415568250492528762028032 Space Studio System	1	\$35,021,867,739,806,829,271,744.00	0	0	0	0	0
78	Panel-755578654752001048888832	831136500985057524056064 Space Studio System	1	\$70,043,735,479,613,658,543,488.00	0	0	0	0	0
79	Panel-151115730950400209777728	1662273001970115049112128 Space Studio System	1	\$140,087,470,959,227,317,086,976.00	0	0	0	0	0
80	Panel-302231461900800419443456	3324546003940230098224256 Space Studio System	1	\$280,174,941,918,454,634,173,952.00	0	0	0	0	0
81	Panel-604462923801600838886912	6649092007880460196448512 Space Studio System	1	\$560,349,883,836,909,268,347,904.00	0	0	0	0	0
82	Panel-1208925847603201677792928	13298184015760920392889024 Space Studio System	1	\$1,120,699,767,673,818,536,695,808.00	0	0	0	0	0
83	Panel-2417851695206403355585856	26596368031521840785778112 Space Studio System	1	\$2,241,399,535,347,637,073,391,616.00	0	0	0	0	0
84	Panel-48357033904128067111717224								

Studio Systems



Portable Systems



Cable Holders



Analog Modules



Sequencers



Modular Controllers

