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DESTINATION MOON!



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WELCOME
TO THE LUNAR EXPERIENCE



THE "LUNAR EXPERIENCE" is a group of musicians & engineers focussing on the development of controller and utility modules for analog synthesizers. Main objective is being ease of use, especially in live performance situations, on stage and in the studio.

Our continuously growing line of products – featured in this brochure – does include modules that do allow to explore new ways to generate trigger signals and control voltages, to process control voltages, to introduce voltage control in a creative manner and to integrate modern midi- and even computer-generated instruments and effects.

Each module is hand crafted in Germany, utilizing only high quality components, known from the classic instruments in history.

This gives the look and feel of the great original modular synthesizers.





511C
VOLTAGE CONTROLLED ENVELOPE GENERATOR

VOLTAGE CONTROLLED ENVELOPE GENERATOR in typical ADSR-Style with five voltage controlled parameters. Control voltage inputs with associated attenuator knobs for attack time, decay time, sustain level, release time and envelope amplitude.

The input jack for the amount of contour control is internally connected to +10 volt if nothing is patched. The time parameters range from 1 ms to approx. 20 s (at full modulation).

A gate button allows for manual triggering the envelope. Trigger threshold of the gate input is ca. 1 volt, positive edge.

The time control voltage inputs are "chained": i. e. a control voltage in the „attack"-input controls the inputs D, and R as well, if there is nothing else patched. Control range is 0-10 volts, higher control voltages give longer envelope times.

Two LEDs serve as indicator lamps for 'gate pulse present' and for the envelope output.

Two envelope outputs serve as normal (0 to 10 volts) and inverted (0 to -10 volts) outputs.



552
QUAD VOLTAGE TO MIDI CONVERTER



VOLTAGE CONTROL VOLTAGE TO MIDI CONVERTER module enables the user to integrate modern midi- and even computer-generated instruments and effects into his modular environment.

Control your midi-equipment from your analog sequencer or from other control voltage generating devices.

This module features four input pairs for control voltages (0 -10 volts) and gate signals to be transformed into midi-compatible control data.

Each input pair can be indepentently transformed into one
the following types of midi data:

- Note-on/note-off
- Velocity (combined w/note-on)
- Pitch bend
- Modulation wheel (CC1)
- Breath controller (CC2)
- Pedal (CC4)
- Volume (CC7)
- Panorama (CC10)
- Special (CC20)
- Channel after touch
- Sustain Pedal
- Program Change

Note output can be transposed via midi information or control voltage (1 V/ oct). Transpose status can be enabled independently for each of the four inputs. Eight midi channel configurations are provided to ease the setup.

553
MIDI TO CLOCK

MIDI TO CLOCK converts a MIDI clock into analog clock and gate-signals, to synchronize e. g. analog step-sequencers to MIDI-hardware- or software-sequencers.
The M553 derives clock signals from the native MIDI clock resolution of 1/96 notes up to 1/4 notes.
The right clock-output supplies a fixed clock signal of 1/16 notes.
The start/stop jacks supply relevant trigger-signals from MIDI start/stop commands while the two „note-on..." jacks supply gate signals, derived from MIDI note-on commands. The MIDI channel is selectable 1-16.



563V2
TRIGGER SEQUENCER



563E
TRIGGER SEQUENCER EXPANDER

EIGHT STEP/FOUR ROW TRIGGER SEQUENCER with built-in clock-oscillator. The 32 switches (with associated LEDs) have three positions each: gate-on, gate-off and reset.

Switch-on time (adjustable width of the gate pulse) is independently variable for each of the four busses.

Two buttons to shift and reset the trigger position manually (all four rows); two buttons with associated trigger inputs to start and stop the internal oscillator. One input to reset the sequencer to position 1 via trigger pulse. Four independent trigger inputs, one for each bus.

The jacks are „switched", so that, if e. g. only input 1 is used, inputs 2/3/4 are affected as well. If none of the sockets is used, the built-in clock oscillator is active. Four trigger/gate-outputs for the four rows of switches.

The module is four units wide.



TRIGGER SEQUENCER EXPANDER MODULE
for the M563 V2 Trigger Sequencer.
Each of the 32 step positions of the connected M563 V2 has now his own dedicated output jack.

Note: M563 V1 sequencers can be upgraded to V2.

569
QUAD SEQUENTIAL VOLTAGE SOURCE

569ES · 569EG
SET & GATE EXPANDER MODULES



QUAD SEQUENTIAL VOLTAGE SOURCE is an analog step-sequencer with up to 32 positions, arranged in four rows.
Each row can be controlled absolutely independent from each other, so that the user has practically up to four separate sequencers at his disposal, each with its own clock- and reset-input jacks, and – at the same time – different running directions (up, down, random and "ping-pong").

In addition the control voltage outputs can be switched between three ranges (2 V, 5 V und 10 V), with the 2 V and 5 V ranges supplying a (to 1/12 V) quantized output voltage.

Each step position has its own "step-mode"-switch to toggle the gate signal of the respective step position on or off.

In the "Function" position it (again separately for the four rows) can defined as skip, reset or stop-command.

The module is six units wide.

The **M 569 EG** and **M 569 ES EXPANDERS** are companion modules to the M 569 Quad Sequential Voltage Source. The M 569 EG expands the M 569 by 32 individual gate outputs and allows direct access to every single step position.

The M 569 ES expands the M569 by 32 individual set inputs and allows the direct positioning to each step.





564
SEQUENTIAL DIVIDER SWITCH



SEQUENTIAL DIVIDER SWITCH, a combination of a sequential 4-to-1/1-to-4 bidirectional electronic switch with clock divider.

Each switch has its own set-button for manual activation, trigger input (positive edge) and classic style indicator lamps.

One output/input-jack, four output/input jacks, clock input to shift the switch position.

Four counter circuits, doubling as clock dividers, are connected in series with adjustable divider ratios.

Ratio switch positions
- SKIP skip step
- 1 shift after one clock pulse
- 2 shift after two clock pulses
- 3 shift after three clock pulses
- 4 shift after four clock pulses
- 8 shift after eight clock pulses

Each switch has its own gate output: 'on' as long as step is active).

565v2·565E
QUAD QUANTIZER & QUANTIZER CONTROLLER



QUAD QUANTIZER featuring four independent quantizer circuits. The module quantizes variable control voltages into semitone intervals (1/12 volt) over an input voltage range of more than ten octaves (128 semitones).

Gate pulses fed into the "Gate In"-jack trigger the quantizer. An "open" gate input quantizes, i. e. if no gate jacks are patched.

The four gate-ins are passed through, one plugged IN 1 feeds IN 2 to IN 4 as well.

The gate outputs supply a pulse, whenever the (quantized) output voltage changes. The most recent quantized value remains preserved until the next quantization will occur.

An M 565 v1 Quad Quantizer module can be updated to a v2 to allow to connect M 565 E controllers.

QUANTIZER CONTROLLER allows to limit the output voltages generated by the M 565 v2 Quad Quantizer to any desired key, chord or note interval. Using the array of 12 keyboard-like arranged toggle switches, notes can be activated or deactivated in any combination.

The adjusted scale works over the whole quantizing range of the M 565 (10 octaves), and controls all four quantizing-units in parallel.



Up to two M 565 E Quantizer Controller modules can be connected to a single M 565 v2. Then quantizer 1 and 2 depend on the first controller, quantizer 3 and 4 on the second.

The 12-position rotary switch changes the output voltages of the connected quantizer(s) in semitone increments.

500
BLANK FACE PLATES



BLANK FACEPLATES with or without the 'Moon' logo in one or two unit widths.

591·594
MULTIPLES & QUAD SWITCH MATRIX ROUTER



MULTIPLE MODULE with 3 x 4 sets of jacks. By using the two additional 'break'-jacks, one can use this module as one, two or three independent four-jack-multiple areas.



QUAD SWITCH MATRIX ROUTER is a passive module, where 2 x 4 output jacks ("destinations") can be routed in pairs to 2 x 4 signal inputs ("sources") using four 6-way rotary switches with two "off"-positions.

This simple device is intended as a companion module to the M552, but suitable for a multitude of applications, where audio- and control-signals have to be routed fast and with immediate visual feedback. Use your imagination.

525·526

REVERSIBLE ATTENUATOR AND MIXER



QUAD REVERSIBLE ATTENUATOR module features four active bipolar attenuators for audio signals and control voltages.

„0"-position = no output signal present

"+10" position = output signal equals input signal (unity gain)

"-10" Position = output signal equals input signal (unity gain), but inverted

The four input jacks are "chained", input 1 is internally connected to +10 volts if nothing ist patched. So the module doubles as single to quad variable voltage source.



REVERSIBLE MIXER is an active bipolar three channel mixer for audio signals and control voltages with master level control and both inverting and non inverting outputs.

In addition each channel has a dedicated on/off ('mute') switch with its own status LED.

„0"-position = no output signal present

"+10" position = output signal equals input signal (unity gain)

"-10" Position = output signal equals input signal (unity gain), but inverted.

500 SERIES

TECHNICAL

The **500-SERIES** module format follows the 5U industry standard known from other manufacturers (e. g. synthesizers.com/Moog/Curetronic/Mos-Lab etc.).

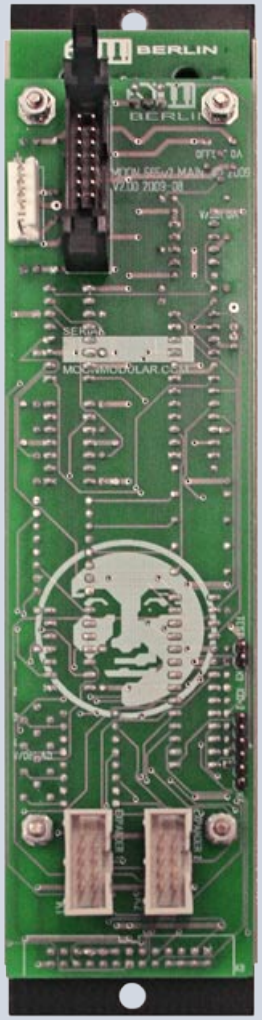
Our modules work with supply voltages of -15 volts/+15 volts. They can be adapted to Moog standard (-6 volts/+ 12 volts) or -12 volts/+ 12 volts as custom order - please ask us.

Two power connectors (synthesizers.com/Club of the Knobs) are on-board as standard, adaptors for other systems are available upon request.

Threshold voltage of the trigger inputs is +1 volt. Control voltage range is usually 10 volts.

The faceplates are etched as the original Moog modules.

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MODULAR

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