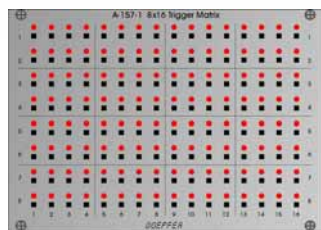
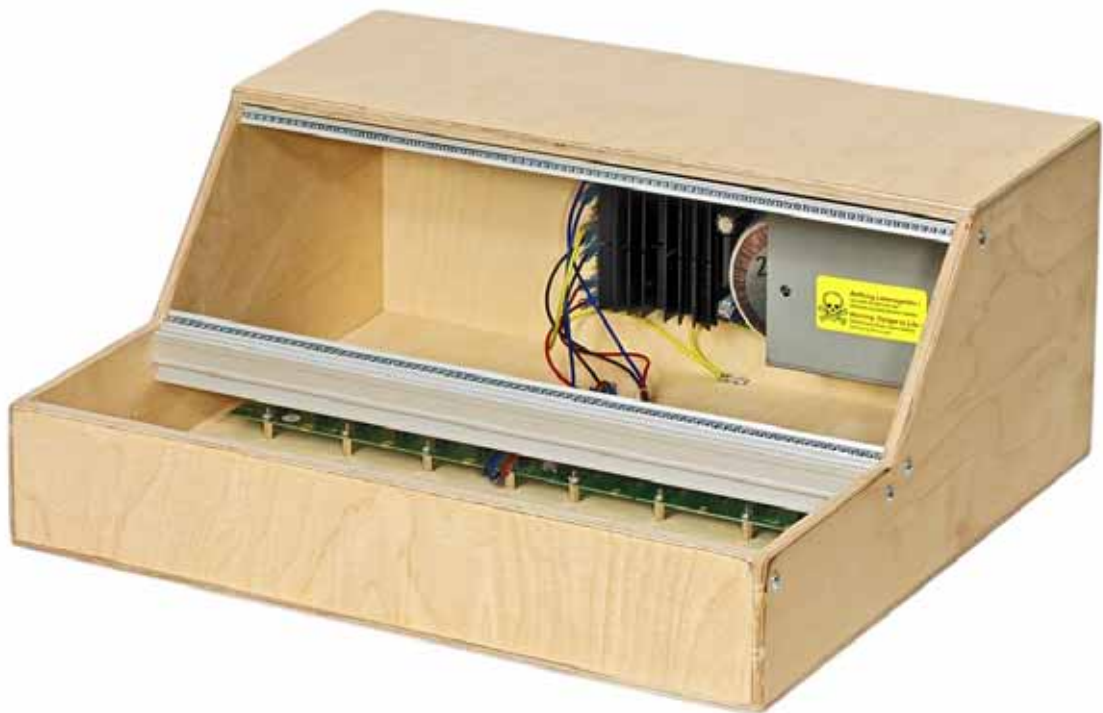


DOEPFER

Musikmesse Frankfurt 2013 News

Hall 5.1 Booth C54 (Alex 4)



A-100 News



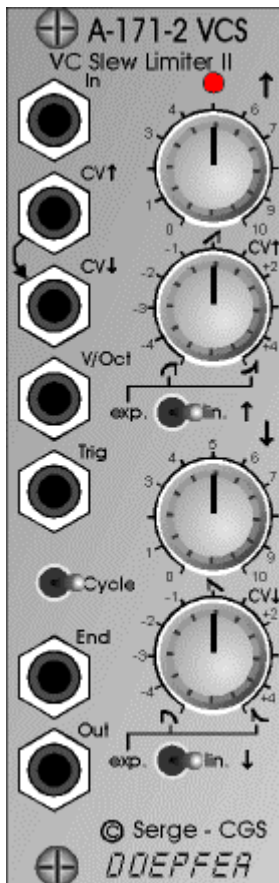
A-100LCB Low Cost Base Frame

The A-100 Low Cost Base has the same width as the A-100 Low Cost Cases (A-100LC6/LC9) and is planned as a base frame for the A-100 Low Cost Cases (A-100LC6 or A-100LC9). But it can be used also as a stand alone unit. One power supply (PSU2) and two bus boards are built in.

The A-100 Low Cost Base has two rows for modules available: one with horizontal alignment and another 45 degrees inclined row. The useable width is the same as for the Low Cost Cases, i.e. 84 HP. The bus boards are located in the rear area (even those for the modules that are mounted in the front row). This was necessary to take advantage of the full height of the front area for installation of A-100 modules.

Price: Euro 320.00

Release date: June 2013



A-171-2 VCS Voltage Controlled Slew Processor/Generator

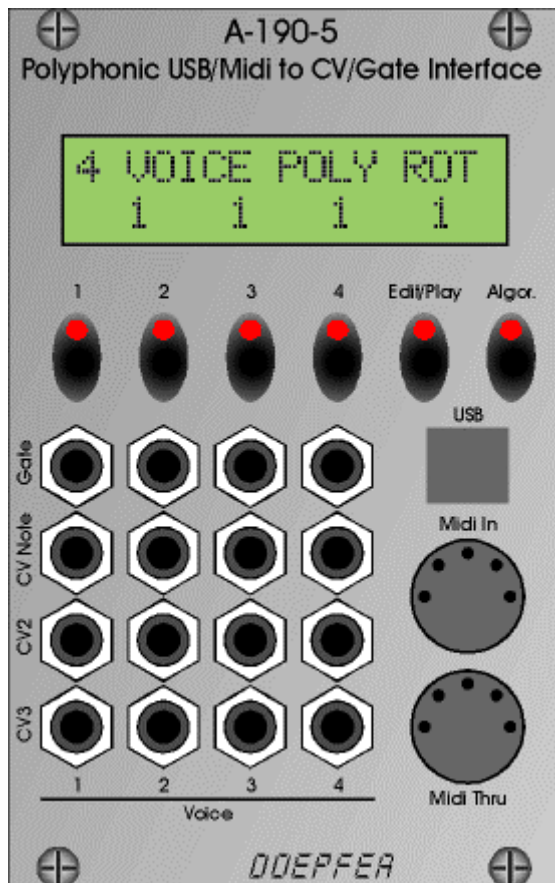
Module A-171-2 is a voltage controlled slew limiter with a lot of additional features beyond a simple slew limiter. It's mostly a licensed copy of [Ken Stones VCS](#) which is in turn based on the Serge VCS.

These are the most important features:

- Manual control of the Slew-Up time
- CV control of the Slew-Up time with polarizer
- Switch for linear/exponential shape of the rising section of the response curve
- Manual control of the Slew-Down time
- CV control of the Slew-Down time with polarizer
- Switch for linear/exponential shape of the falling section of the response curve
- Signal input: the "to-be-slewed" signal
- CV Up Input
- CV Down Input
- CV Up and CV Down sockets are normalled
- exponential CV input: named "V/Oct" in the original design but as it's not really exactly 1V/Oct we will name this input probably "exp.CV", mainly used for VCLFO/VCO applications in cycle mode or as common exponential control for both up and down times in slew mode
- Trigger input: used for envelope generation or retrigger in LFO/VCO mode, a pulse at the trigger input will start the envelope or retrigger the LFO/VCO
- End output: turns high as the output falls below about 20mV, turns low as the outputs goes beyond about 3.5V, in cycle mode a rectangle signal is generated
- Cycle on/off switch: when "on" the End output is internally connected to the Trigger Input to generate cyclic signals like an LFO
- Output: the output of the slew limiter
- LED display: displays the slew limiter output signal

Price: Euro 120.00

Release date : May 2013



A-190-5 Polyphonic USB/Midi to CV/Gate Interface

Module A-190-5 is a four voice Midi/USB to CV/Gate interface. For each voice a pitch control voltage (CV1, 1V/octave standard to control VCOs), a gate output (to control envelope generators) and two additional control voltages (CV2, CV3) are available. The two additional CV outputs can be controlled by Midi velocity, volume, modulation, pitch bend, after touch or free assignable Midi controllers.

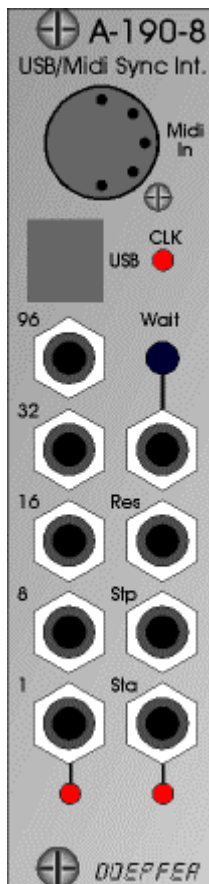
These modes are planned (without obligation):

- four voice monophonic (i.e. to control four monophonic voices by four succeeding Midi channels)
- four voice polyphonic (i.e. to control four monophonic voices by one Midi channel) with several sub-modes (e.g. rotating / non-rotating)
- two voice polyphonic (i.e. to control two monophonic voices by one Midi channel)
- unisono

The basic mode is selected by means of a momentary switch (probably *Mode* or *Algor.*) and is shown in the LC display. Certain parameters of each mode can be edited (e.g. the midi channel(s), the midi reference note for 0V CV, assigned controllers for CV2 and CV3). For this the momentary switch *Edit/Play* is used. The parameter values (e.g. midi channels) are shown in the display and can be modified by means of the momentary switches 1...4. In *Play* mode the LEDs of these four switches display the gate states. The range of the CV outputs (CV1...CV3) is 0...+10V (i.e. 10 octaves for CV1). The resolution is 12 bit. The gate voltages are 0/+5V (maybe even adjustable to 0...+10V for non A-100 applications).

Price: ~ Euro 250.00

Release date : ~ summer/fall 2013



A-190-8 USB/Midi to Sync Interface

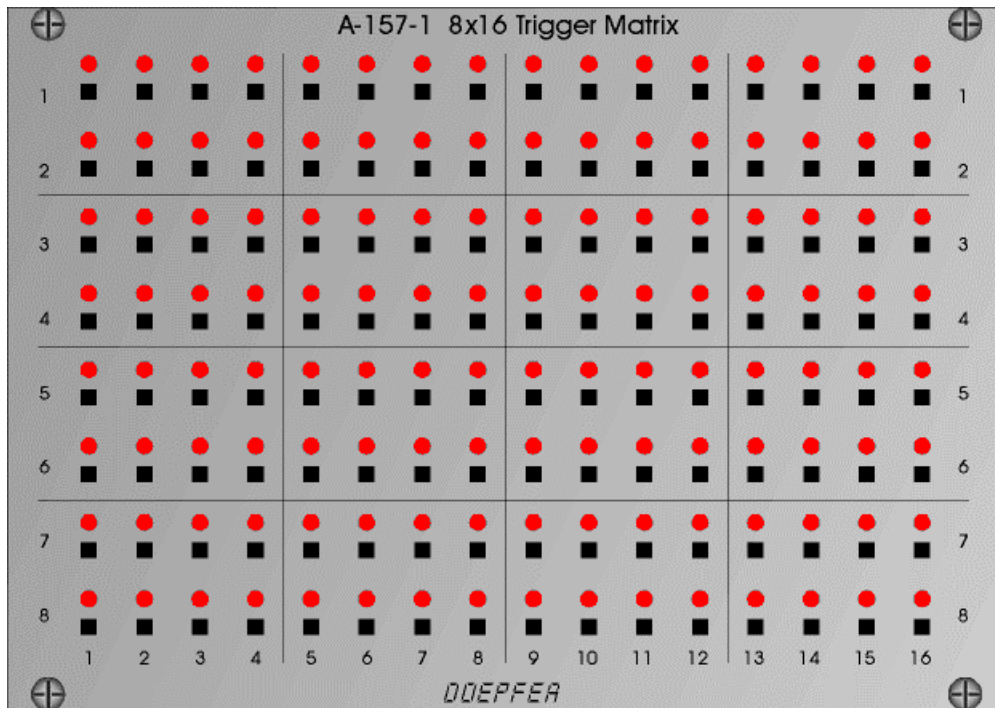
Module A-190-8 is a Midi/USB to Sync interface. The main application of the module is the control of clocked A-100 modules like sequencers (A-155), sequencer controllers (A-154), trigger divider (A-160 or A-163), trigger sequencer (A-161) and similar units. It may be used also to reset or sync LFOs (e.g. A-145, A-147, A-143-4) or to trigger envelope generators (A-140, A-141, A-143-1, A-143-2) with a fixed clock rate.

These are the most important features of this version of the module:

- Midi input (recognizes only Midi realtime messages clock, start, stop and continue)
- USB input for Midi via USB
- Clock outputs:
 - 96: outputs the Midi clock 1:1 (96 pulses per measure/ppm or 24 pulses per quarter note/ppq)
 - 32: outputs the Midi clock divided by 3 (32 pulses per measure/ppm or 8 pulses per quarter note/ppq)
 - 16: outputs the Midi clock divided by 6 (16 pulses per measure/ppm or 4 pulses per quarter note/ppq)
 - 8: outputs the Midi clock divided by 12 (8 pulses per measure/ppm or 2 pulses per quarter note/ppq)
 - 1: outputs a pulse at the start of each measure
 - Start: outputs a pulse at each Midi Start or Continue message or generates a gate signal that remains in the high state until a Midi Stop message occurs (selectable via jumper)
 - Stop: outputs a pulse at each Midi Stop message
 - Reset: outputs a pulse at each Midi Start message that follows a Midi Stop message
 - Wait button: Whenever the Wait button is operated or a positive voltage is applied to the Wait input the module waits for the next measure start until the clock signals are generated.
 - Wait control input, can be selected by means of a jumper between Gate function or Switch function: in Gate mode the positive edge of a gate signal is used to init the Wait state, in Switch mode an external switch that connects to GND is used to init the Wait state (equivalent to Switch-Trigger)
- LED displays for clock, "1" and start (display of Start depends upon the chosen Start mode, see above)
- output voltages can be selected between +5V and +12V by means of an internal jumper (for DIN Sync applications +5V has to be used !)
- firmware updates via USB (provided that there will be updates available)

Price: ~ Euro 120.00

Release date : summer 2013



A-157 Trigger Sequencer Subsystem

A-157 is a trigger sequencer subsystem that is used to generate up to eight trigger signals controlled by a 8x16 LED/button matrix (some customers call it "Miniature Schaltwerk" as it is based on the same matrix as the no longer available [Schaltwerk](#)). The system is still in the prototype state. Consequently the specifications on this page are still preliminary !

The subsystem will probably contain several modules:

- the LED/button matrix module A-157-1
- the trigger output module A-157-2
- one of the control modules (A-157-3, A-157-4 ...)

The LED/button matrix module A-157-1 is the core of the subsystem. It is used to set or reset the trigger event on each of the 16 steps of each of the 8 rows.

The trigger output module A-157-2 outputs the 8 trigger signals and has an LED display for each trigger. We will probably add a mute button or mute switch for each row that allows to turn the trigger output off/on independent for each row.

In the final version the modules A-157-1 and A-157-2 will be probably merged into one module only because both modules are essential for the subsystem.

The module A-157-1/2 (or the merged module that will contain both units) can be connected to a simple control module or a more sophisticated control module which is planned for the future (similar to the [A-155](#) and [A-154](#) conceptual design where the A-155 includes a simple control unit that can be replaced by the [A-154](#) which offers a lot of additional functions).

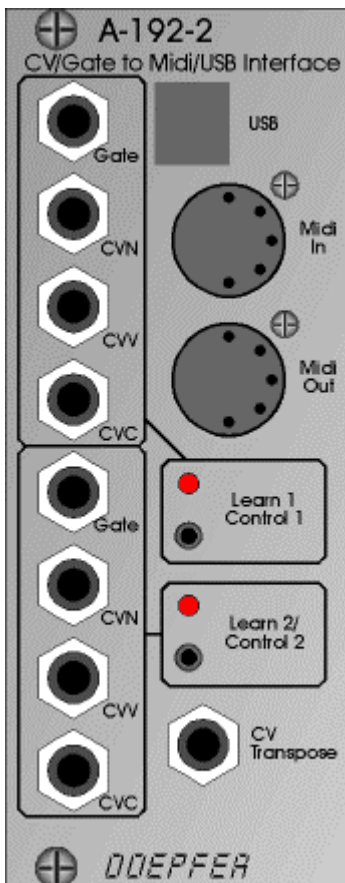
At the beginning a simple control module A-157-3 similar to the A-155 control unit will be available. It offers only the functions clock, start/stop and reset (both with manual controls and control inputs). For this standard control unit the tempo (clock) is the same for all 8 rows, the direction is forward and the length of each row is 16.

We also plan a more complex control module A-157-4 that allows additional functions like 128 memories for trigger sequences, different clock/start/stop/reset for 2 or 4 groups of rows (e.g. common for rows 1-4 and 5-8, or in pairs), independent first/last step for each row, independent direction (forward/backward/pendulum/random) for each row, one-shot mode, LC display and so on. But these ideas are very preliminary and we will have to find out which functions are essential.

There are also plans for a stand-alone version adapted to the design of [Dark Energy](#) and [Dark Time](#) with the same case dimensions and wooden side panels (provisional name "Dark Flow")

Price: ~ Euro 400.00 (A-157-1/2/3 combo, without A-157-4)

Release date : fall 2013 (A-157-1/2/3 combo, without A-157-4)



A-192-2 CV/Gate to Midi/USB Interface

Module A-192-2 contains two independent CV/Gate-to-Midi/USB interfaces. For each of the two sub-units these inputs are available:

- Gate Input (min. +5V)
- CVN Input (defines the Midi note number), 1V/octave standard, range 0...+10V (i.e. 10 octaves)
- CVV Input (defines the velocity value assigned to the Midi note message), can be used alternatively for Midi volume (CC#7), range 0...+5V
- CVC Input (free assignable to any Midi control change number), range 0...+5V

For both sub-units a common CV Transpose input is available (1V/octave, range 0...+10V). The voltage applied to this input is added internally to CVN before the Midi note number is generated. It can be used e.g. to transpose two sequences simultaneously by one voltage.

How it works:

Whenever the rising edge of the Gate input is recognized a Midi *note on* message is generated. The note number corresponds to the sum of the voltages applied to the CVN input and the common CV Transpose Input that is present at the rising edge of the gate signal. In *Velocity mode* the voltage applied to the CVV input is used to define the velocity data of the Midi *note on* message. As soon as the falling edge of the Gate input is recognized the corresponding Midi *note off* message is generated.

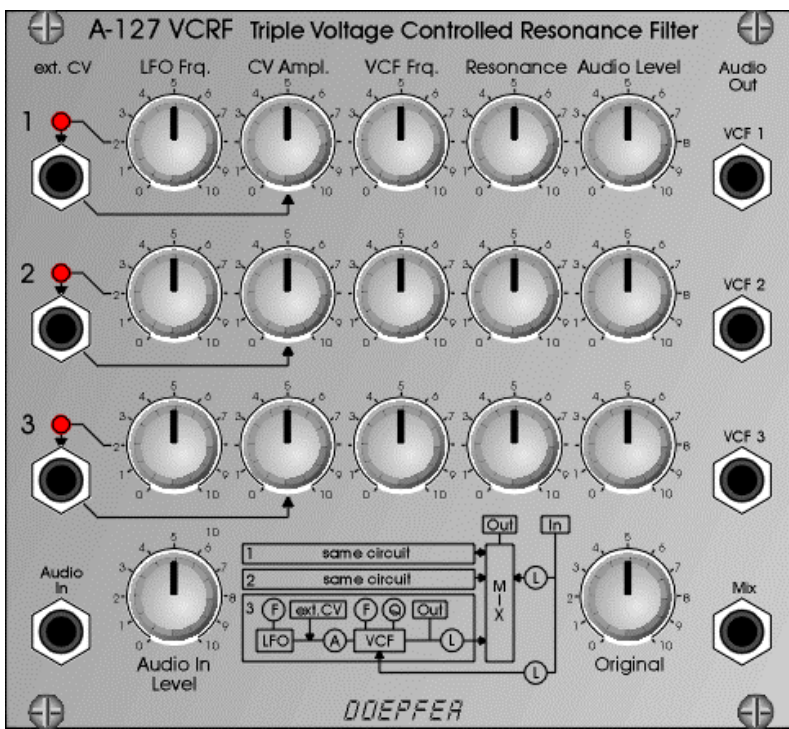
The CVC voltage is permanently converted into the corresponding Midi *control change* message, as well as the CVV voltage provided that the *Volume mode* is chosen. The difference between *Velocity mode* and *Volume mode* is the function of the voltage applied to CVV. In *Velocity mode* the voltage CVV is used to define the velocity value of the corresponding Midi note on message and is measured only during the rising edge of the Gate input. In *Volume mode* the CVV voltage is permanently converted into Midi Volume messages (Midi control change #7).

The data generated by the module are transmitted simultaneously to Midi Out and USB. Incoming Midi data is merged to the Midi output.

The two LEDs also display the activity of the sub-units (i.e. if Midi data are generated by the unit in question).

Price: Euro 130.00

Release date : already available

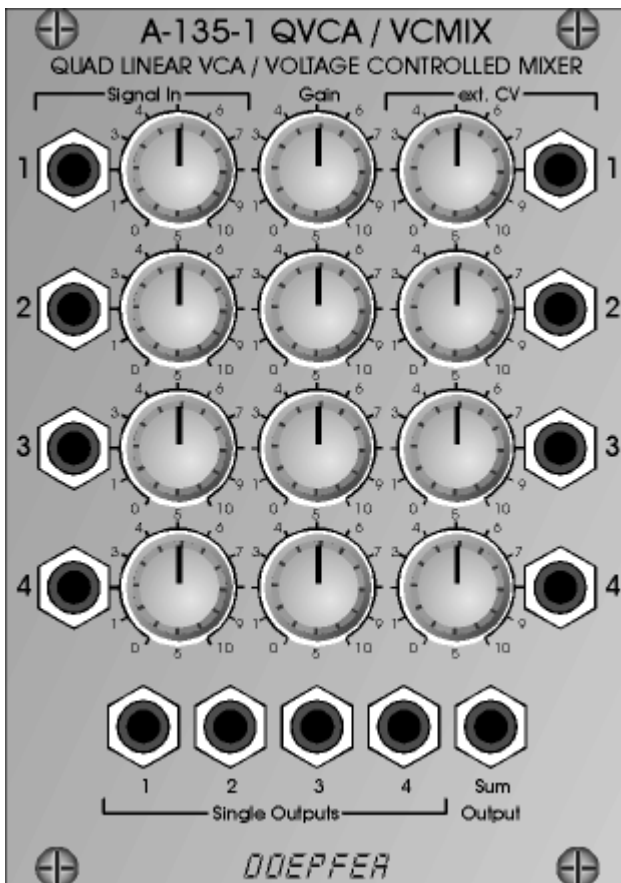


A-127

From April 2013 the Voltage Controlled Resonance Filter A-127 is manufactured in an improved version. Instead of the CA3080 high-end circuits (SSM2164) are used. This reduces the noise floor and the distortion clearly. The price remains unchanged.

Price: Euro 175.00

Release date: April 2013

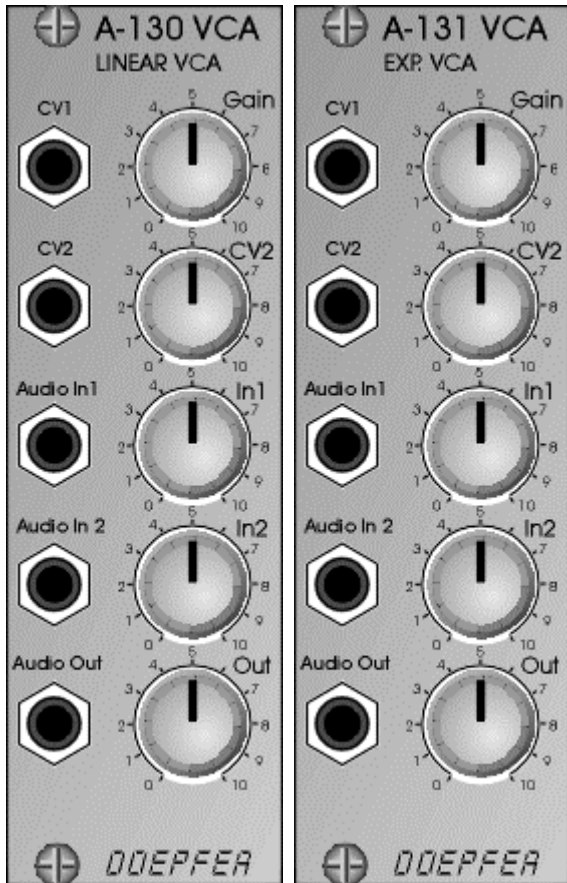


A-135-1

From May 2013 a revised version of the voltage controlled mixer with single outputs and DC coupled signal in/outputs will be available.

Price: Euro 125.00

Release date: May 2013



A-130/A-131

From April 2013 the Voltage Controlled Amplifiers A-130 (linear version) and A-131 (exponential version) are manufactured in an improved version. Instead of the CA3080 high-end VCA circuits (SSM2164 or THAT VCAs) are used. This reduces the noise floor and the distortion clearly. The prices remain unchanged.

Prices:

A-130: Euro 65.00

A-131: Euro 70.00

Release date: April 2013



A-180-2 Small Multiple

Module A-180-2 is the small version of the standard 2x4-fold multiple A-180-1 and has only 2 HP width.

Price: Euro 35.00

Release date : April 2013

MAQ16/3 Special Edition



The Midi Analog Sequencer MAQ16/3 has been developed in cooperation with the band KRAFTWERK in the year 1992. The first units have been manufactured about end of 1992. On the occasion of the 20th anniversary a limited special edition of the Midi Analog Sequencer will be manufactured. There are probably only a few devices with such a long life time. The special edition is equipped with a black front panel and the same black knobs as used in the Dark Energy and Dark Time. The technical specifications are the same as the standard unit.

Price: Euro 750.00

Release date : June 2013