

# DOEPFER



## Superbooth 2017



# DOEPFER MUSIKELEKTRONIK GMBH

## Press Release Superbooth, Berlin 2017

Dear Sir or Madam,

On the occasion of Superbooth in Berlin, April 20-22, 2017 we will be showing our new gear at booth 0210. We also celebrate our 25th company anniversary in Berlin.

Some of the new products were already presented as prototypes at NAMM and are now available (e.g. the voltage controller performance mixer series A-135-4). But we also show some new gear in Berlin (e.g. the quad VCO A-111-4, the micro keyboard A-173-1/2, the miniature stereo mixer A-138s and the low cost versions of the monster cases).

We are looking forward to seeing you at the booth and hope for a mention about it in your Superbooth show report. On the following pages you will find descriptions of the new gear we will be presenting in Berlin.

If you need more details (e.g. pictures, more detailed product descriptions) don't hesitate to contact me directly. This press release is available on the press page of our website as a PDF or MS Word™ file. From May 2017 more detailed information about the devices will be available via the corresponding link on the news page of our website: [www.doepfer.com](http://www.doepfer.com) > NEWS > link to the corresponding device.

Best regards,

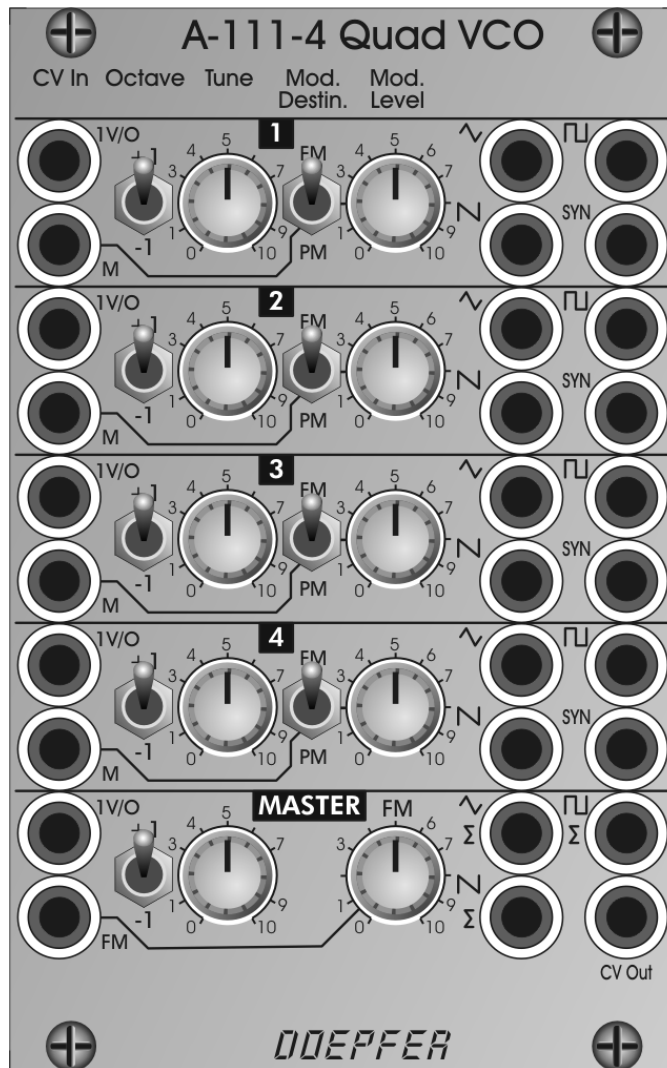
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## A-111-4 Quad VCO



A-111-4 contains four precision VCOs with 10 octaves range and has individual controls, inputs and outputs for each VCO available as well as common controls. After all the A-111-4 is very similar to four A-111-3 with built in output mixers for the three waveforms and a common control unit for all VCOs.

Controls, inputs and outputs (individual for each and common for all VCOs):

1V/Octave CV input

Octave switch (+1/0/-1 octave)

Tune control (range internally adjustable by jumpers: 2 semitones / 1 octave / 4 octaves)

Modulation CV input (common unit is fixed to FM)

Modulation destination FM or PWM (only for the individual VCOs)

Modulation intensity

Triangle output

Sawtooth output

Rectangle output

Sync input (only for the individual VCOs, internally selectable hard or soft sync, CEM3340 hard sync type)

Typical applications:

fat sounding monophonic VCO with the possibility to adjust intervals

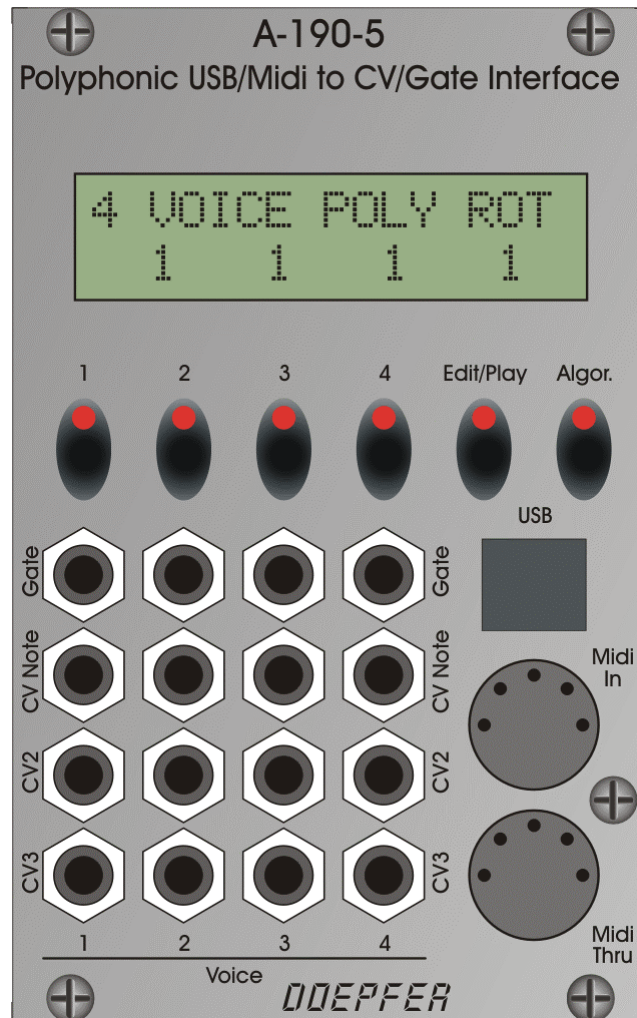
paraphonic patches (all four VCOs processed by one VCF/VCA)

full polyphonic patches in combination with the polyphonic CV interface A-190-5

Date of Delivery: summer 2017

Price: ~ Euro 400.00

## A-190-5 Polyphonic Midi/USB-CV Interface



As the quad VCO A-111-4 requires a suitable control unit for polyphonic applications we decided to finish the A-190-5, which is the planning state since a long time.

A-190-5 is an Midi/USB interface that generates a Gate signal and four control voltages to control up to four VCOs and associated modules like envelope generators, filters and VCAs for polyphonic sound generation. The A-190-5 will be equipped with different polyphonic, duophonic, paraphonic and monophonic modes which are selected by means of a view menu buttons and the LC display.

For each channel a gate, a note controlled CV (1V/Oct.) and two auxiliary CVs (e.g. for velocity or controlled by midi control change messages) are available. In play mode the states of the four gates are displayed by four LEDs integrated into the buttons 1-4.

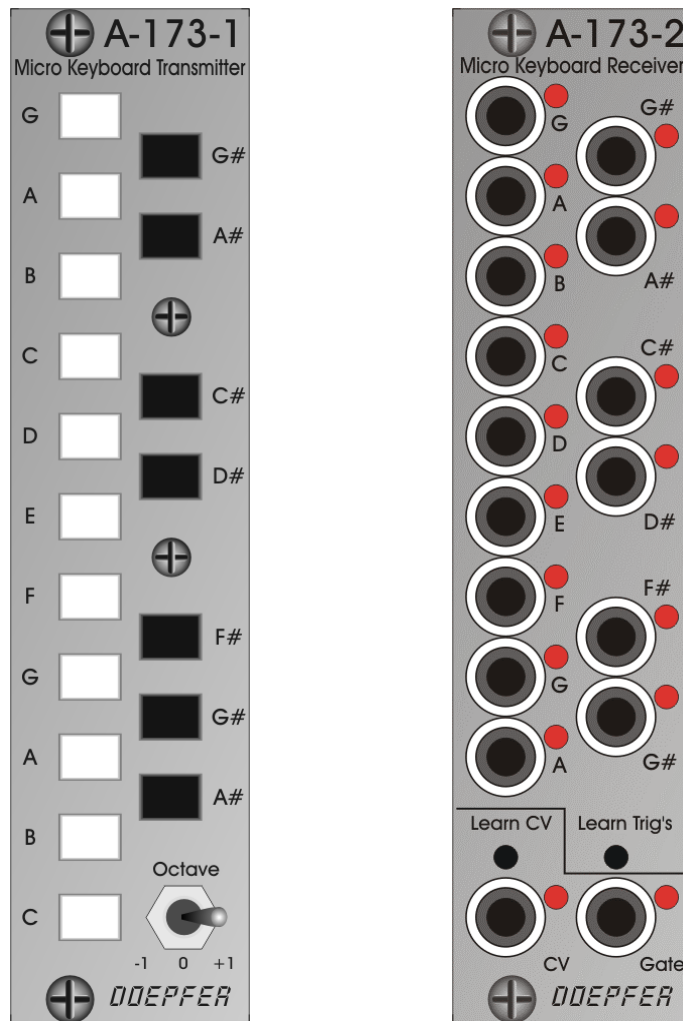
Firmware updates are carried out via the USB connection.

Date of Delivery: summer 2017

Price: ~ Euro 300.00



## A-173-1/2 Micro Keyboard transmitter/receiver



A-173-1/2 is a module combo that is used to generate a manually controlled 1V/Octave CV signal and up to 15 manually controlled gate/trigger signals. Typical applications are the transposition of a sequence by means of the CV output (without the need of an external keyboard and CV interface) and the manual generation of gate/trigger signals for start, stop, envelope generator triggering and other trigger tasks.

A-173-1 is the transmitter module and is made of a 1 1/2 octaves micro keyboard and an octave switch.

A-173-2 is the receiver module and generates several gate/trigger signals and a 1V/Oct. CV signal.

The upper section of the module is used for the gates/triggers which are controlled by the corresponding buttons of the A-173-1. Each output can be programmed as gate (pressing/releasing the corresponding key turns the gate on/off) or toggle (pressing the corresponding key changes the state) or trigger (pressing the corresponding key generates a short trigger signal). The state of each output is displayed by an LED. The lower section of the module is used to generate a 1V/Oct. CV signal and gate signal in the usual way.

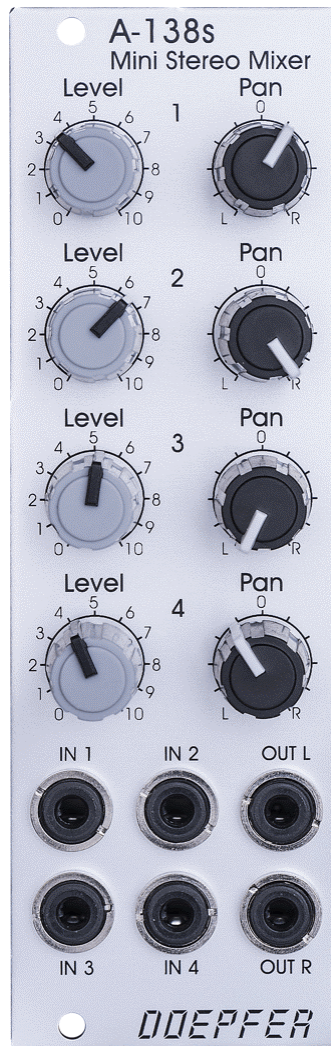
By means of the learn feature of the A-173-2 (i.e. defining the key for OV CV) a few buttons can be separated from the CV generation section so that these buttons only control gate/trigger outputs without affecting the CV. That way e.g. start/stop or other triggers become independent from the CV section.

The modules communicate via standard midi note on/off messages and are connected internally by means of a 2-wire cable. That way the modules can be mounted at different positions within the case.

Date of Delivery: summer 2017

Price: ~ Euro 180.00 (both modules)

## A-138s Mini Stereo Mixer

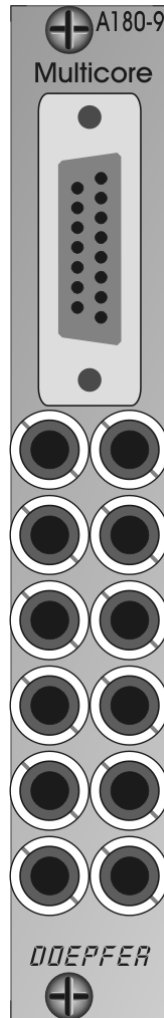


A-138s is a simple but useful 4-in-2 mixing tool. It has four inputs available. Each input is equipped with an attenuator (Level) and a panning control that is used to distribute the signal to the left and right output.

Date of Delivery: May 2017

Price: ~ Euro 75.00

## A-180-9 Multicore



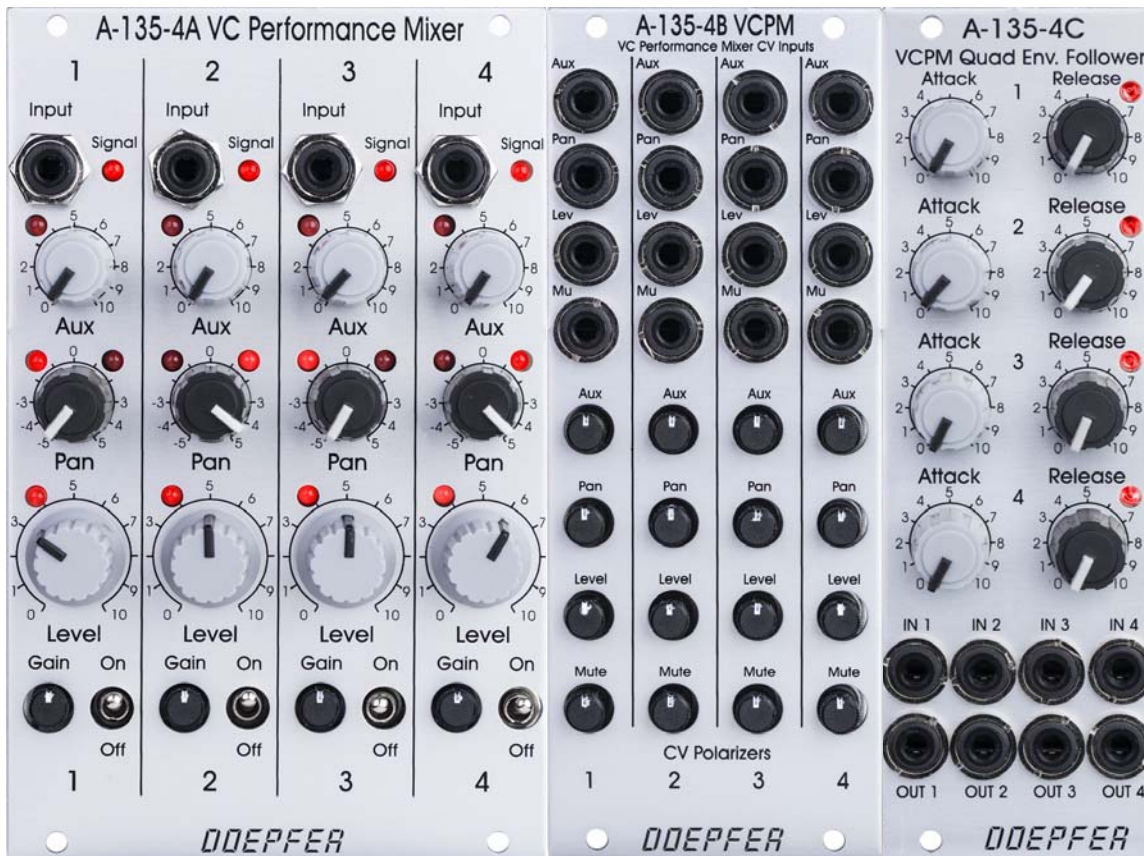
A-180-9 is another simple but useful tool. It is used to connect up to 12 signals between two different cases by means of one standard Sub-D cable only. That way it's possible to pre-patch e.g. two (monster) cases and connect all signals, that are required in both cases (e.g. clock, start/stop, master CV) by one cable only instead of 12 individual patches. The module is fully passive (no power supply) and simply wires the 12 sockets to 12 pins of the Sub-D connector.

For operation two of the modules (male and female version) and a Sub-D cable with the required length are required (because only male/female Sub-D cables are common on the market also one male and one female version of the module is required for the connection).

Date of Delivery: summer 2017

Price: ~ Euro 120.00 (2 modules and Sub-D cable)

## A-135-4 Voltage Controlled Performance Mixer Modules



The A-135-4 module series form a fully voltage controlled performance mixer and can be combined with the manually controlled performance mixer modules A-138o/p.

The main module A-135-4A is similar to the performance mixer input module A-138p but features voltage control over all parameters, i.e. main level, panorama, aux and mute for each of the four channels. The module uses high quality VCAs manufactured by Curtis/USA and has available a control LEDs for each parameter. Module A-135-4B is the CV input module and is connected internally to A-135-4A via a ribbon cable. That way it's possible to arrange the A-135-4B left, right, above or below the A-135-4A and not necessarily next to the main module. It has available a CV input for each parameter (main level, panorama, aux and mute). Each input is equipped with a polarizer/attenuator that enables to adjust the intensity and polarity/direction for each control voltage.

The A-138o is used as output module for A-135-4. It's possible to combine the A-135-4A with the manually controlled version A-138p of the performance mixer.

Module A-135-4C is an auxiliary module and offers four envelope followers with attack and release controls, and LEDs that display the envelope follower output signals. The module is also connected internally to A-135-4A via a ribbon cable and uses the audio input signals of the A-135-4A as defaults for envelope followers inputs. When the sockets IN1...IN4 are patched the module can be used also for other envelope follower applications.

The main application of the A-135-4C are effects like ducking, compression or expansion. For this the outputs of the envelope followers are connected to the corresponding CV inputs of the A-135-4B. But the envelope followers can be used also to control other modules (e.g. frequency of filters).

Date of Delivery: April 2017

Prices:

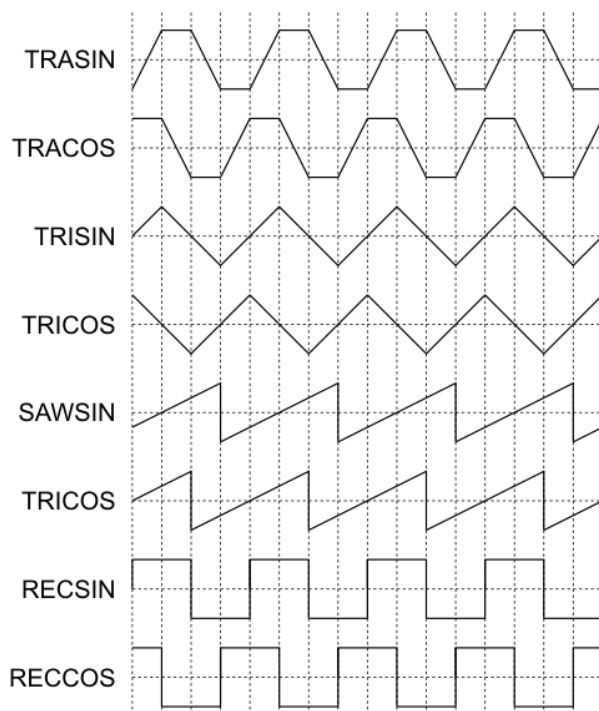
A-135-4A/B combo: Euro 400.00

A-135-4C: Euro 120.00





A-110-6 Waveforms



## A-110-6

### Trapezoid Thru Zero Quadrature VCO

A-110-6 is a brand new VCO design and uses a **Quadrature Trapezoid** as standard waveform. In addition to this unique waveform combo it also offers **linear thru zero frequency modulation** and **quadrature outputs** (i.e. two trapezoids with 90 degrees phase shift). The two basic waveforms are called Trapezoid Sine (TRASIN) and Trapezoid Cosine (TRACOS). The other standard waveforms (triangle, sine, saw, rectangle) are derived from the quadrature trapezoids by means of internal waveshapers and are also available as quadrature signals.

The module has two control sections: linear and exponential. The exponential section consists of the XTune control, the 1V/Oct input and the XFM input with corresponding XFM attenuator.

The linear section consists of the LFrq control and the LFM input with the corresponding attenuator LFM.

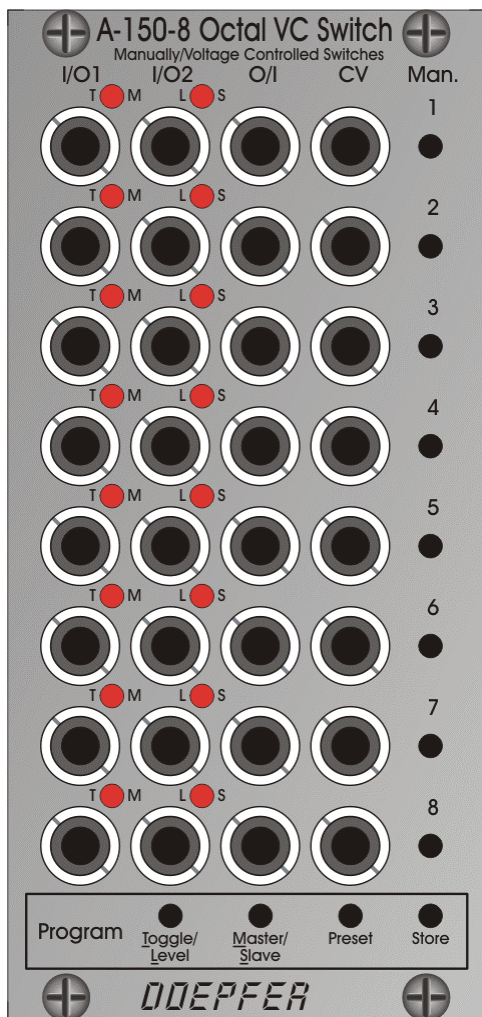
The pitch of all outputs is determined by the control voltages of both sections. The linear section is used to control the pitch in a linear manner. When the LFrq control is fully CW the module works like a normal VCO. The pitch is then controlled by the exponential section with the manual Tune control XTune and the exponential frequency control inputs 1V/Oct and XFM. 1V/Oct is used to control the pitch by a 1V/Oct CV source. XFM is used to apply an exponential frequency modulation with adjustable depth.

As the LFrq control is turned counter-clockwise starting from the fully CW position, the frequency is lowered in a linear manner until all waves (nearly) stop at the center position of LFrq (provided that no LFM signal is present). As the LFrq control is moved from the center towards the CCW position the waves start again but in the reverse direction. When the fully CCW position of LFrq is reached the module works like a normal VCO again. But much more exciting is the use of the LFM input to modify the linear control voltage by an external control voltage (typically another VCO or LFO). Linear modulation by another oscillator using the thru zero feature in combination with the trapezoid waveforms generates audio spectra than cannot be obtained from any other oscillator!

A dual color LED is used to display the polarity of the linear control voltage. Another dual color LED is used to display the TRASIN, which is useful in the LFO mode to show the current frequency.

Date of Delivery: May 2017

Price: Euro 250.00



## A-150-8

### Octal Manual/Voltage Controlled Programmable Switches

Module A-150-8 contains eight manually/voltage controlled switches. Each of the eight switches has a manual control button (Man.), a control voltage input (CV), a common Out / Input (O/I), and two In / Outputs (I/O1, I/O2). The switches are bi-directional, i.e. they can work in both directions, so can connect one input to either of two outputs, or either of two inputs to one output. Two LEDs show which in / output is active (ie. which is connected to the common out / input). In addition the LEDs are used for the programming of the module:

For each unit the operating mode can be selected: Toggle or Level controlled. In Toggle mode the rising edge of the CV input or operating the manual control button changes the state of the switch. In Level mode the switch state is defined by the voltage applied to the CV input (low voltage = I/O1, high voltage = I/O2) or by the state of the manual control button (not pressed = I/O1, pressed = I/O2). The modes are programmed very easily: Operating the Toggle/Level button of the program section displays the current state of each switch with the LEDs (left LED on = Toggle mode, right LED on = Level mode). Operating the manual control button of the switch in question changes the toggle/level mode.

In addition it's possible to define master/slave groups. In such a group the upper unit (= master) controls also the state of the following switches provided that they are defined as slaves. Master/slave programming is also very simple: Operating the Master/Slave button of the program section displays the current state of each switch with the LEDs (left LED on = Master, right LED on = Slave). Operating the manual control button of the switch in question changes the master/slave mode. When all 8 units are defined as master each switch is independent of each other. If for example the sequence is MSSSMSMS the control unit of the first switch also controls the switches 2, 3 and 4. The control unit of switch #5 also controls the switch #6, and the control unit of switch #7 also controls the switch #8.

We also think about a small preset management with eight presets. But we are not yet sure if this makes sense for the module.

Date of Delivery: Summer 2017

Price: ~ Euro 150.00

## Low cost versions of monster cases A-100LCM9/A-100LCMB



(the picture is a still a photomontage of two A-100LC9V as we don't have a real picture available)

A-100LCM9 is the low cost version of the 9U monster case, A-100LCMB is the low cost version of the monster base.

Date of Delivery: summer 2017

Prices:

A-100LCM9 raw version: tbd

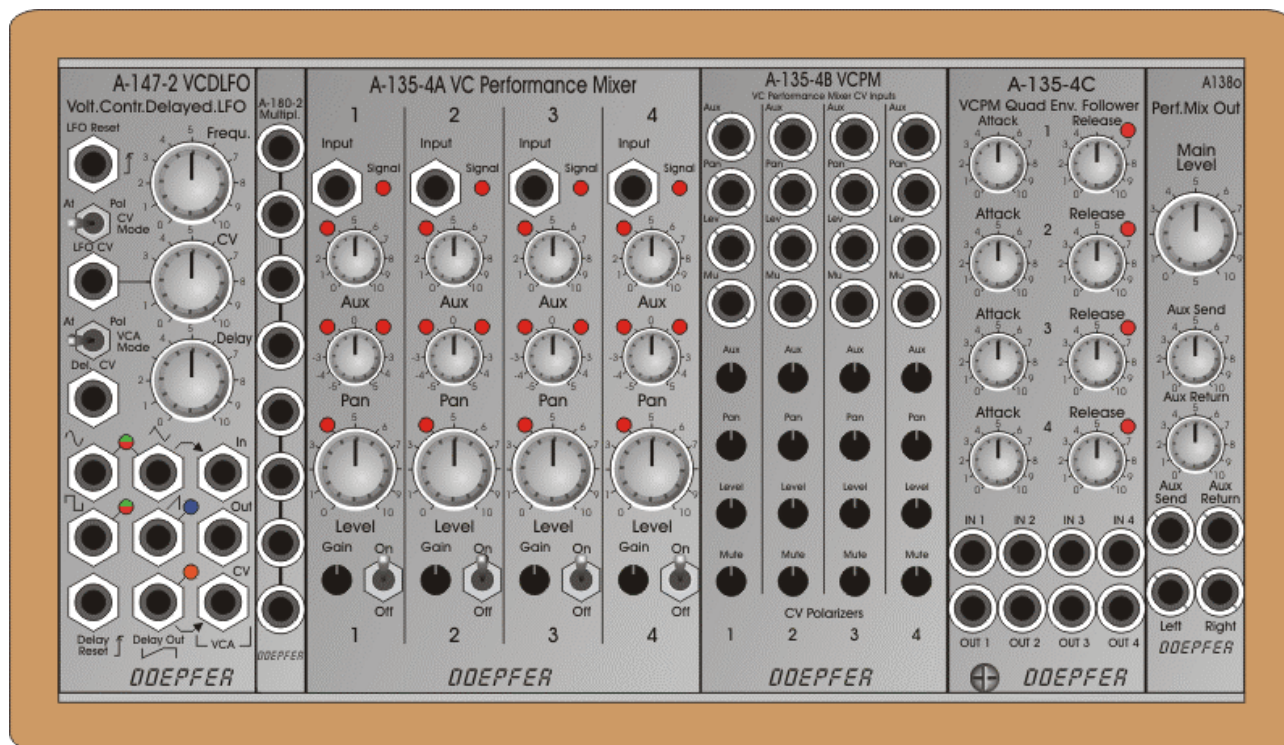
A-100LCM9V black version: tbd

A-100LCMB raw version: tbd

A-100LCMBV black version: tbd



## A-100LC1



A-100LC1 is an economically priced small housing with 48 HP width. It is available in two versions: raw wood or black coated. A-100LC1 contains the power supply/bus board A-100SSB which offers 8 bus connectors and 380 mA for each voltage (+12V and -12V). The device is directly connected to mains voltage (100-240V / 50-60 Hz), i.e. no 'wall wart' is required.

Date of Delivery: April 2017

Prices:

raw version: Euro 120.00

black version: Euro 150.00