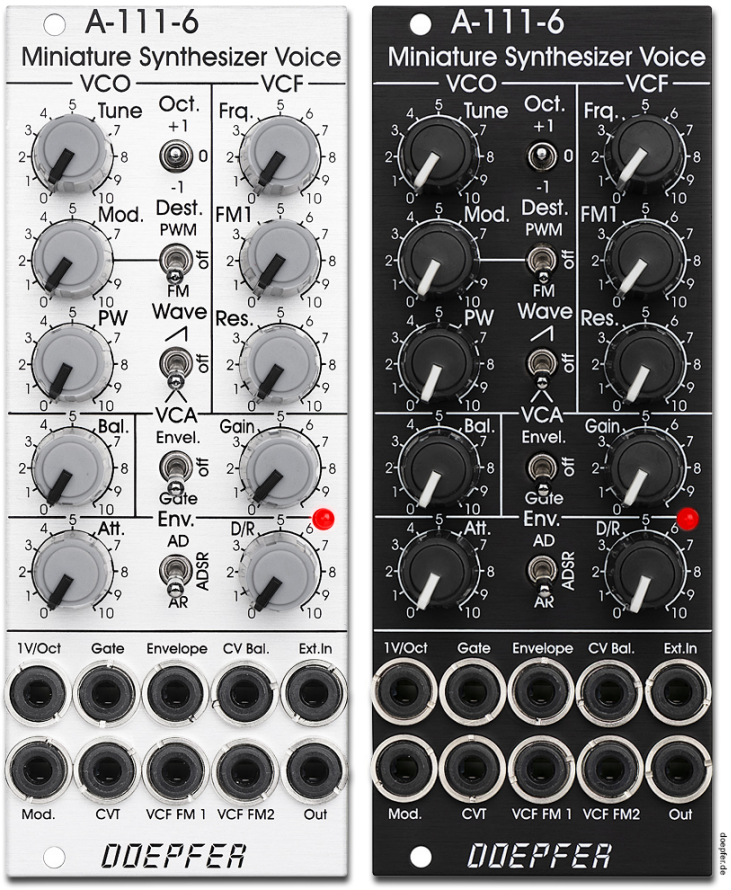
Doepfer launches a complete synthesizer-voice-in-a-box module. The A-111-6 houses a classic VCO-VCF-VCA signal path and comes with its own envelope. This complete synth voice is only 10TE / HP wide – typical for the new Doepfer slim design.



Module A-111-6

all-in-one miniature synthesizer voice

VCO — **sawtooth / triangle / pulse**
PW / PWM and FM
32Hz - 16kHz

BAL — balance **with CV Bal. input**
controls VCO / Ext IN level

VCF — **24dB LowPass**
FM1 / FM2
Full resonance with self oscillation
(VCF can be used as a sine oscillator)

VCA — initial gain (VCA can be used without Env)
gate / envelope mode

ENV — **AD / ADSR / AR mode**
CV Time control of A, D/R or A/D/R
(set by internal jumper)

Width: 10HP, depth: 50mm
Current: +60 mA (+12V) / -60 mA (-12V)

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4 aspects of the synth voice are noteworthy. First, the slim, yet comprehensive VCO (sawtooth / triangle / pulse with PWM), second, Balance (mix of VCO / Audio IN) with CV-input, third, the VCF with resonance up to self-oscillation (VCF usable as a sine oscillator), and fourth, the possibility of voltage control of individual envelope parameters.

Also remarkable: The price. The module costs approx. 180 Euros (silver version) / approx. 190 Euros (black version). Not bad for a *complete* synth voice.

A-174-4 is a three-dimensional joy stick module. One of the exciting things about this is the fact that – in

Doepfer A-111-6 (complete Synth-Voice), Joystick II (X/Y/Z) and further modules
addition to the X / Y / Z outputs – the individual quadrants Q1 / Q2 / Q3 / Q4 are also available. The in 2020
will be released in spring 2020.

Module A-174-4

joy stick II

Module A-174-4 modules outputs three control voltages generated by a spring-loaded X/Y cross potentiometer (so-called joy stick) and a Gate signal.

The control voltages for X and Y are controlled by the X and Y position of the joystick in the usual way. The third control voltage Z is controlled by the rotation of the spring-loaded joystick knob. The Gate signal is generated by a button at the center/top of the joystick knob.

The "Overlap" switches can be used to add a fixed offset voltage of typ +5V to the non-inverting output in question so that the output voltage range changes to typ 0...+10V (rather than -5...+5V).

On top of the X / Y / Z outputs, the quadrant voltages of Q1, Q2, Q3 and Q4 are indepedently available.

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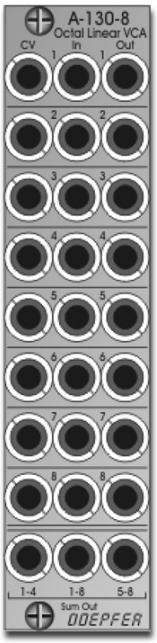
Finally, a few modules for special applications. A-130-8 is an 8-channel VCA / mixer, A-133-2 is a dual voltage controlled VCA with special possibilities and A-183-4 is a level shifter / trigger buffer (for adjusting / raising CV / trigger signals). These modules will also be available in spring 2020.

Module A-130-8

Octal Linear VCA / Voltage Controlled Mixers



Module A-130-8 contains eight linear voltage controlled amplifiers (VCAs). Each VCA features a control voltage input (CV), a signal input (In) and a signal output (Out). In addition three mixers are included: the socket labelled "1-4" outputs the sum of the VCAs 1-4, the socket labelled "5-8" outputs the sum of the VCAs 5-8, the socket labelled "1-8" outputs the sum of all eight VCAs.

Module A-133-2

Dual Voltage Controlled VCA/Polarizer/Inverter/Ring Modulator

Module A-133-2 can be used for a lot of applications: as a simple VCA, or a voltage controlled polarizer, or a voltage controlled inverter up to a DC coupled ring modulator. In principle the module contains two special voltage controlled amplifiers (VCAs) that allow both positive and negative amplification.

Module A-183-4

Quad Level Shifter / Clock/Trigger Buffer

Module A-183-4 is a fourfold level shifter. A level shifter is required if the level of a digital control signal has to be increased or decreased. A typical application is the conversion of a gate, trigger or clock signal with +5V voltage level (tolerance range +2...+5V) to +12 voltage level.

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New Doepfer A-100 Modules 2020

A-111-6 Miniature Synthesizer Voice
Preis: ca. 180 Euros (silver), ca. 190 Euros (black)

A-174-4 Joy Stick II mit 3D (X/Y/Z)
Preis: ca. 150 Euros

A-130-8 Octal VCA / Octal Mixer
Preis: ca. 80 Euros

A-133-2 Dual VC VCA
Preis: n.a.

A-183-4 Quad Level Shifter / Clock / Trigger Buffer
Preis: ca. 60 Euros

Website Manufacturer:
www.doepfer.de