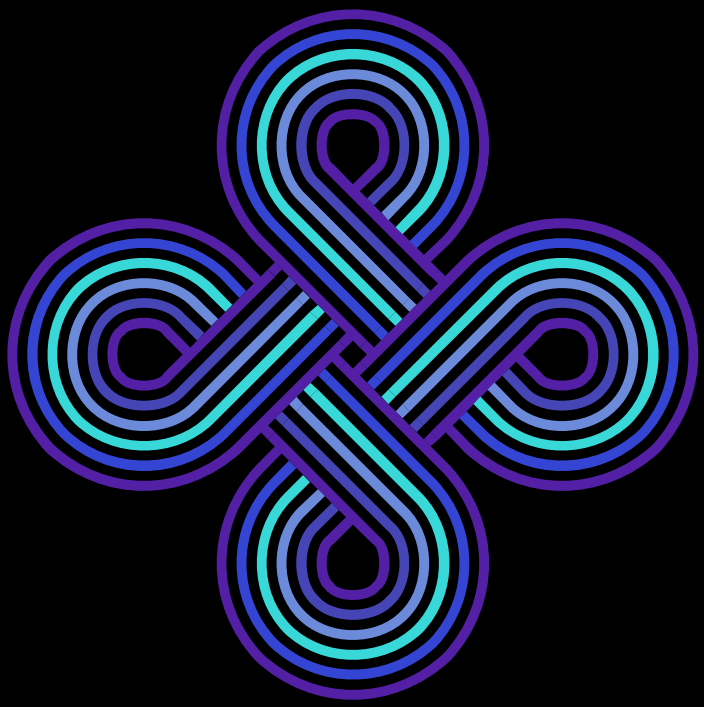


MSM

Modules for VCV Rack

Random Source(v1) produces 'staircase' voltages. The signal present at the sample input(**IN**) is sampled at a rate set by the signal at the trigger input(**CLK**), and held at that voltage at the S&H output(**S&H OUT**). The exact shape of the staircase depends on the sort of waveform at the sample input: NOISE or RANDOM signals produce random patterns; an LFO produces rising or falling staircase patterns.

SAMPLE knob: To change the amplification of the signal on the sample input.

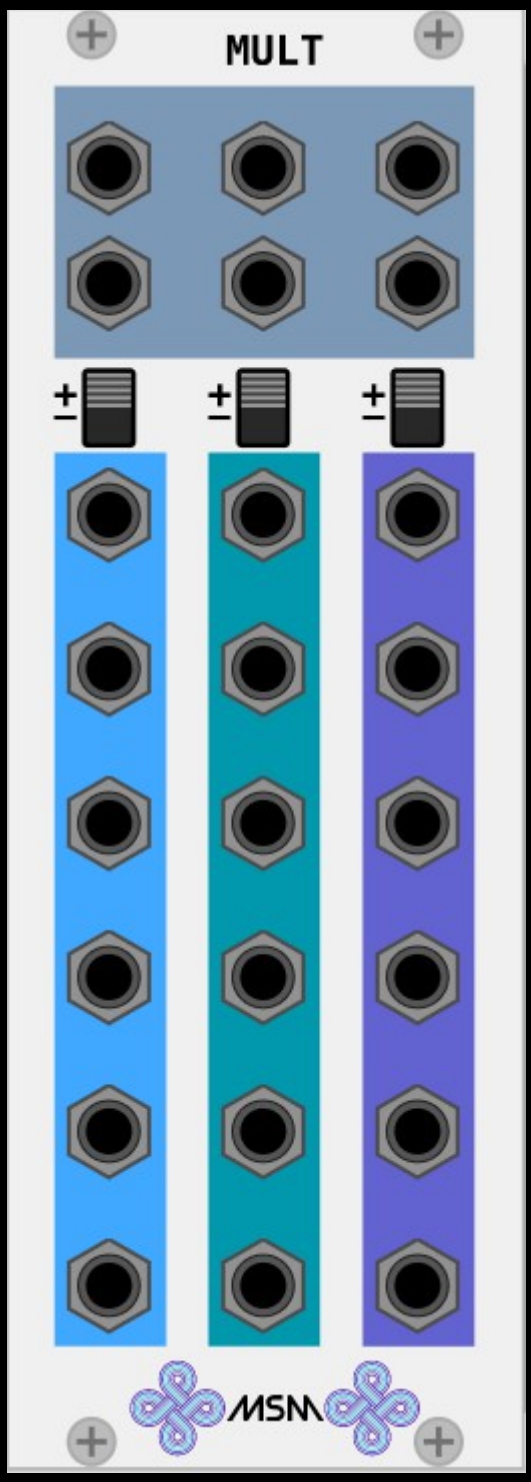
Random Source(v2) produces 'staircase' voltages. The signal present at the sample input(**SAMPLE**) is sampled at a rate set by the signal at the trigger input(**EXT CLK**), and held at that voltage at the S&H output(**S&H OUT**). The exact shape of the staircase depends on the sort of waveform at the sample input: NOISE or RANDOM signals produce random patterns; an LFO produces rising or falling staircase patterns.
This module comes with a build in Square LFO aswell a white noise source.

SAMPLE knob: To change the amplification of the signal on the sample input.

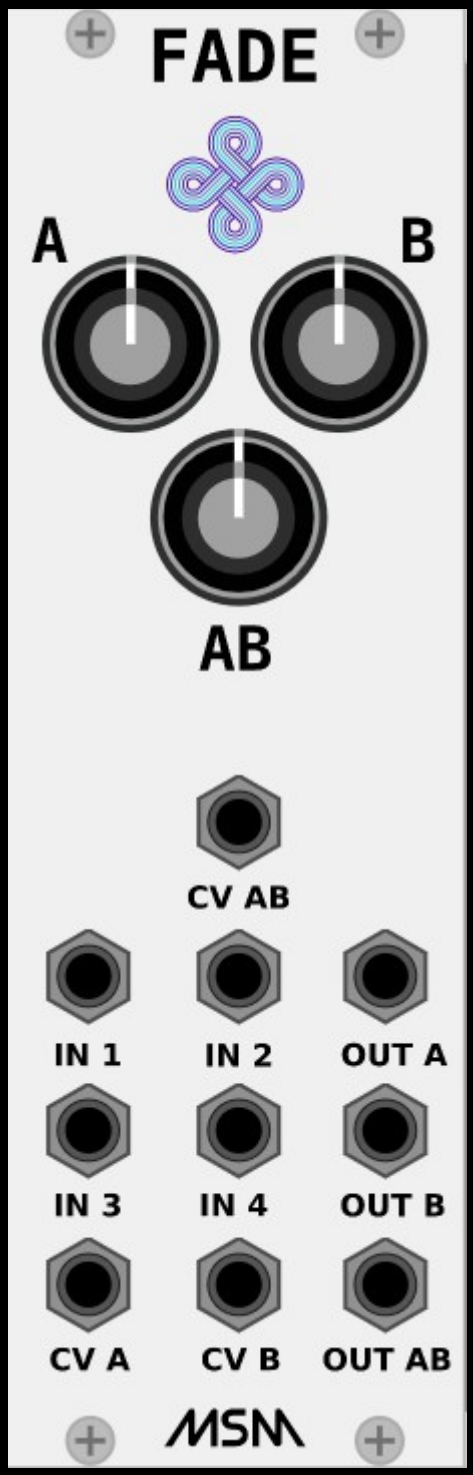
TEMPO knob: Adjust the frequency of the Square LFO.

FM knob: To change the amplification of the frequency modulation coming from the FM input.

Mult is a utility module with three independent sections.
Each section of the **Mult** module got two inputs, which are either added or substracted by each other (**+-** Switch) and split to six copies.
This allows audio or CV signals to be sent to several destinations at once.

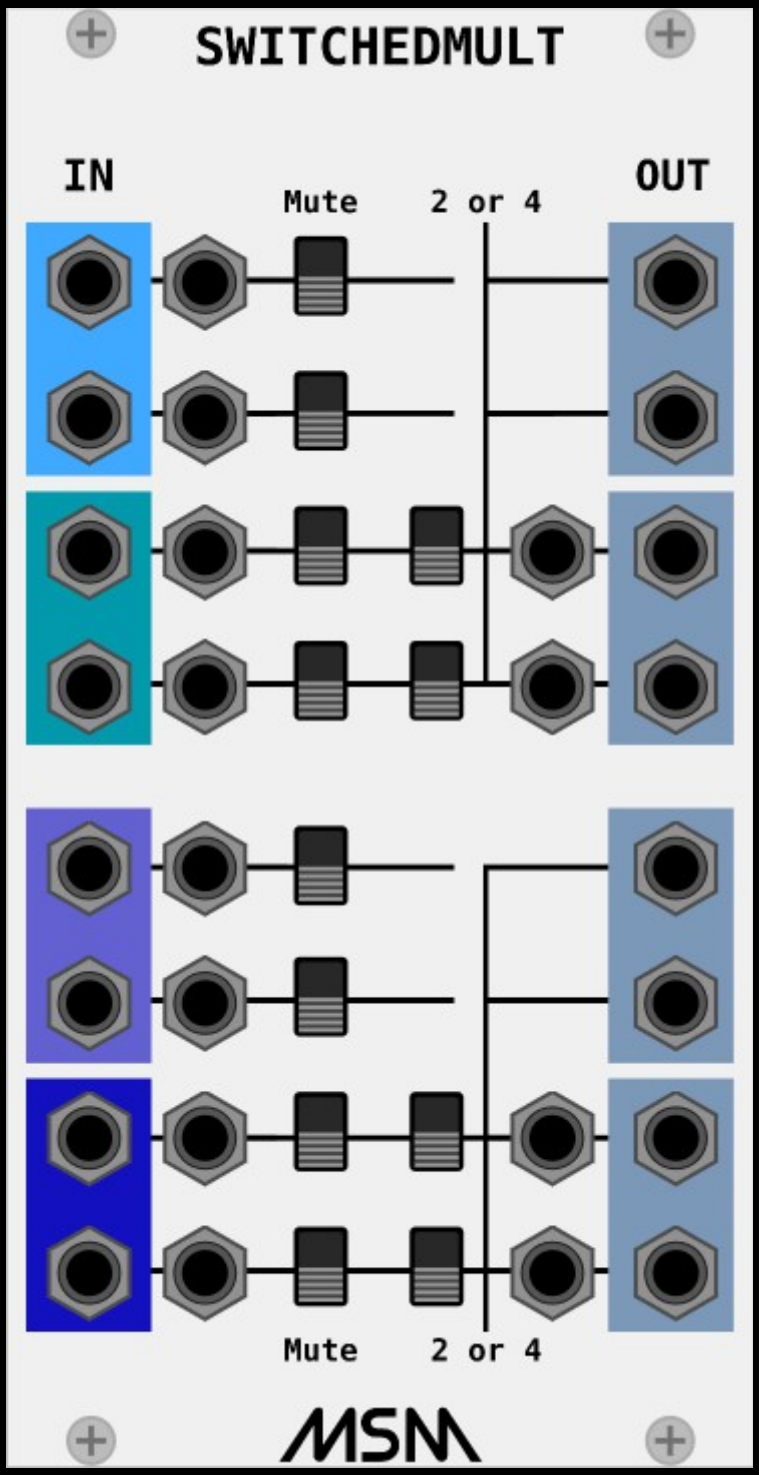


Fade is a mixer module to blend audio or CV signals with a crossfader. Four signals can be processed by the two crossfaders (**A** and **B**) and blended further by the third crossfader (**AB**). Each crossfader can be modulated manually or by a CV signal.



SwitchedMult is a utility module with four independent sections. Each section of the module got two inputs, which are added by each other and split to two copies.

Every input has a **Mute** function, which can be modulated manually or by a CV signal. In addition, inputs 3 and 4 as well as 7 and 8 can be toggled to archieve four instead of two outputs (**2 or 4** Switch). This function can also be modulated manually or by a CV signal. This allows audio or CV signals to be sent to several destinations at once.



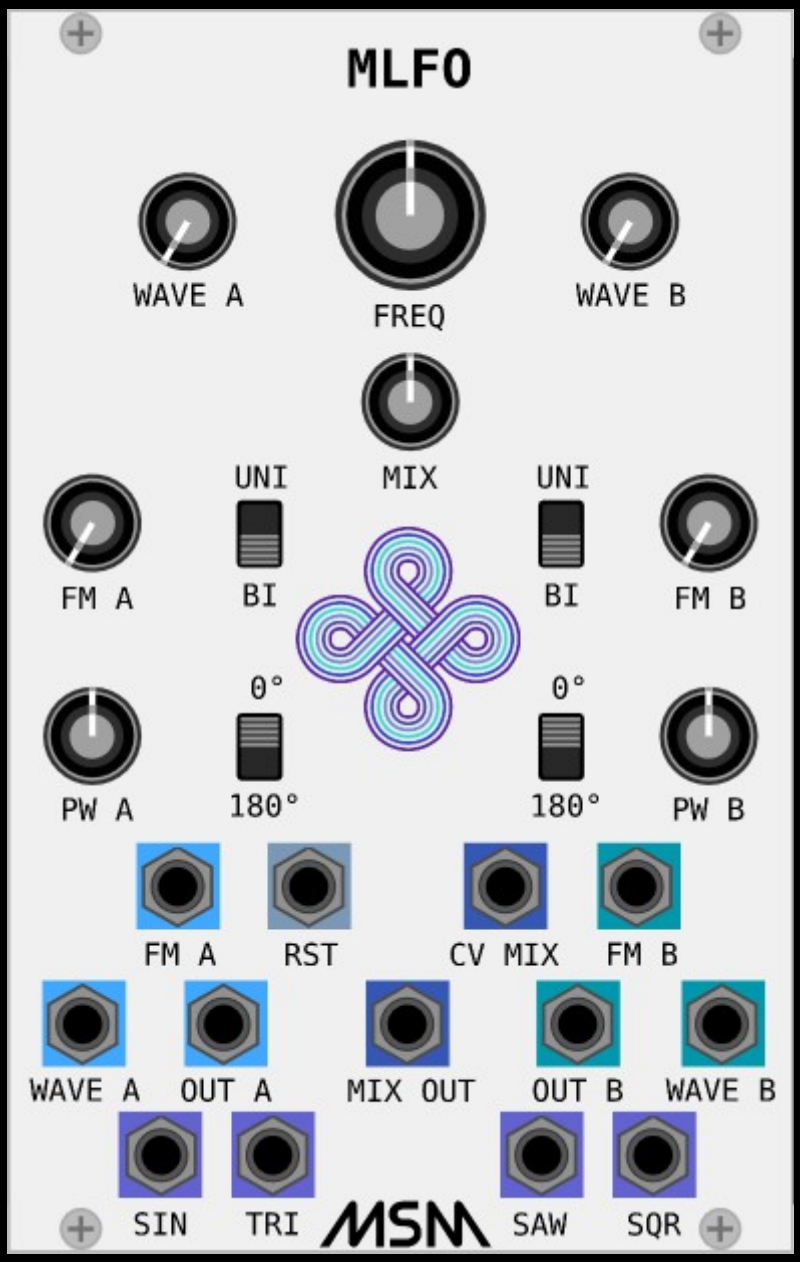
MLFO is a low frequency oscillator, which produces cyclical control voltages. Four waveforms are available: sine, triangle, sawtooth and square wave.

The **MLFO** can be used as a modulation source for any number of modules: e.g. modulating the pulse width or frequency of a VCO, modulation of the cut-off frequency of a VCF, etc..

The **MLFO** signal can be synchronised via the reset input.

While this module has its regular waveform ouputs (e.g. sine), it also got additional features.

The **WAVE A**(**B**) knob sweeps seemlessly through the available waveforms, which will be sent to **OUT A**(**B**) as well as to **MIX OUT** and can be modulated via the **WAVE A**(**B**) inputs.
The **MIX OUT** can be modulated manually or via the **CV MIX** input.



WAVESHAPER produces variety of waveforms.
It can be used for waveshaping/-folding,
distortion, saturation, etc.

This module got 3 different algorithms
(**SHAPE 1**, **SHAPE 2**, **SHAPE 3**).
Which can be modulated manually or via CV.

In addition it also got an **In(put) Gain** knob aswell an **Out(put) Gain** knob.