

MANIKK MASH

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multiple – attenuverter - attenuators - levelshifter

# Users Guide

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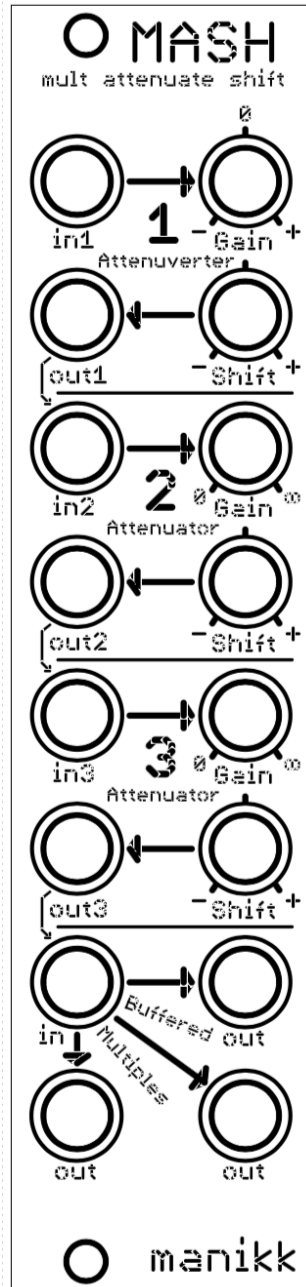
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# Frontpanel layout



# Welcome

Congratulations to your purchase of this module.

MASH is a utility module with the following functions:

- One Attenuverter with level shift
- Two Attenuators with level shift
- Buffered multiple, 1 in to 3 out

The functions are chained together but you can break the chain by inserting cables in the input jacks.

# Front panel controls and jacks

## Attenuverter 1

The module has one attenuverter at the top, marked “1”.

The top knob sets the gain of the input signal from the input jack. If the knob is to 12 o'clock the gain is set to zero. If the knob is turned clockwise to the right, the gain is increased until it gets the same as the input level. If the knob is turned counterclockwise to the left, the signal is inverted, and the gain is increased, until it reaches its maximum level (but inverted).

The signal is then fed through the level shift knob where you can shift the incoming signal up or down.

The output is fed directly to next stage in the chain which is the input 2 jack of attenuator 2. This internal connection will be broken if you insert a cable into the in2 jack.

The knobs are linear.

## Attenuator 2 & 3

The module has two attenuators, marked “2” and “3”.

The top knob of each of the two attenuators attenuates the gain of the input signal from the input jack from the original level of the input signal down to zero.

The signal is then fed through the level shift knob where you can shift the incoming signal up or down.

The output is fed directly to the next input jack in the chain. This internal connection will be broken if you insert a cable into the in3 or multiple-in jack.

The knobs are linear.

## Buffered multiples

The last stage of the module is a buffered multiple with 1 input to 3 active, buffered outputs.

# Back panel connectors

## Power connector

The power connector should be connected to the Eurorack power supply bus with the supplied ribbon cable.

Warning! Make sure that the polarization will be correct. The red stripe is -12V and should be oriented to the side indicated on the PCB.

## Technical details

Width: 6HP

Current consumption:

+12V: 28,7 mA

-12V: 28,7 mA

## More information

You can find more information on the website [manikk.com](http://manikk.com):

- Latest version of this manual
- FAQ
- Other products
- And more...

## Warranty

This device has a one (1) year limited warranty starting from the first purchase date.

The warranty covers malfunctions in the device.

The warranty does not cover bad usage, external damage or other abnormal usage.

The device is designed to work in a Eurorack synthesizer system. Other uses are not covered by the warranty.

If you have to use this warranty you need to do the following:

- 1) Check that the date is still in the warranty-time of 1 year from the date of purchase.
- 2) Contact the seller where you purchased the device.
- 3) Send the malfunctioning device to the address given by the seller. You have to pay for this freight yourself. Very important that you attach your return-address to the device, so we know where to return the repaired device.
- 4) Manikk will repair or replace the device if the problem is covered by the warranty. We will send the repaired device back to you.