



ADDAC105 4 VOICE CLUSTER
USER'S GUIDE . REV01

October.2019

Welcome to:

ADDAC105 4 VOICE CLUSTER USER'S GUIDE

Revision.01 October.2019

OVERALL FEATURES

Following our ADDAC103 T-Networks this new module is inspired by it's simplicity. This is a 4 voice Square Oscillator with VCA, FM switch and a slew decay for the incoming Trigger input. All voices are then mixed and processed through a Multimode Filter.

Each voice has it's own VCA input where any input is accepted (Trigger, Gate, CV) The [DECAY] controls the slew decay applied to the incoming signal, if [DECAY] is fully anti-clockwise then it also works as a Mute.

The [FM ON] switches activate/deactivate the FM input coming from the previous voice: Voice 1 FM comes from voice 4, voice 2 FM comes from voice 1, and so on, so you can FM all of them in a FM loop.

All 4 voices are summed and sent through a filter with controls over [CUTOFF] with an Attenuverter for the CV input and [RESONANCE]. Three filter outputs are provided [LOWPASS], [BANDPASS] and [HIGHPASS]

The [EXTERNAL IN] input can be routed through a jumper on the back of the module allowing the incoming signal to go to:

1. the filter input for processing an external audio source.
2. all of the 4 voices Frequency control allowing for some experimental CV control over pitch of all 4 voices at the same time (due to the specificities of the circuit and to keep the module at a low price these inputs are not callibrated to 1v/octave).

Tech Specs:

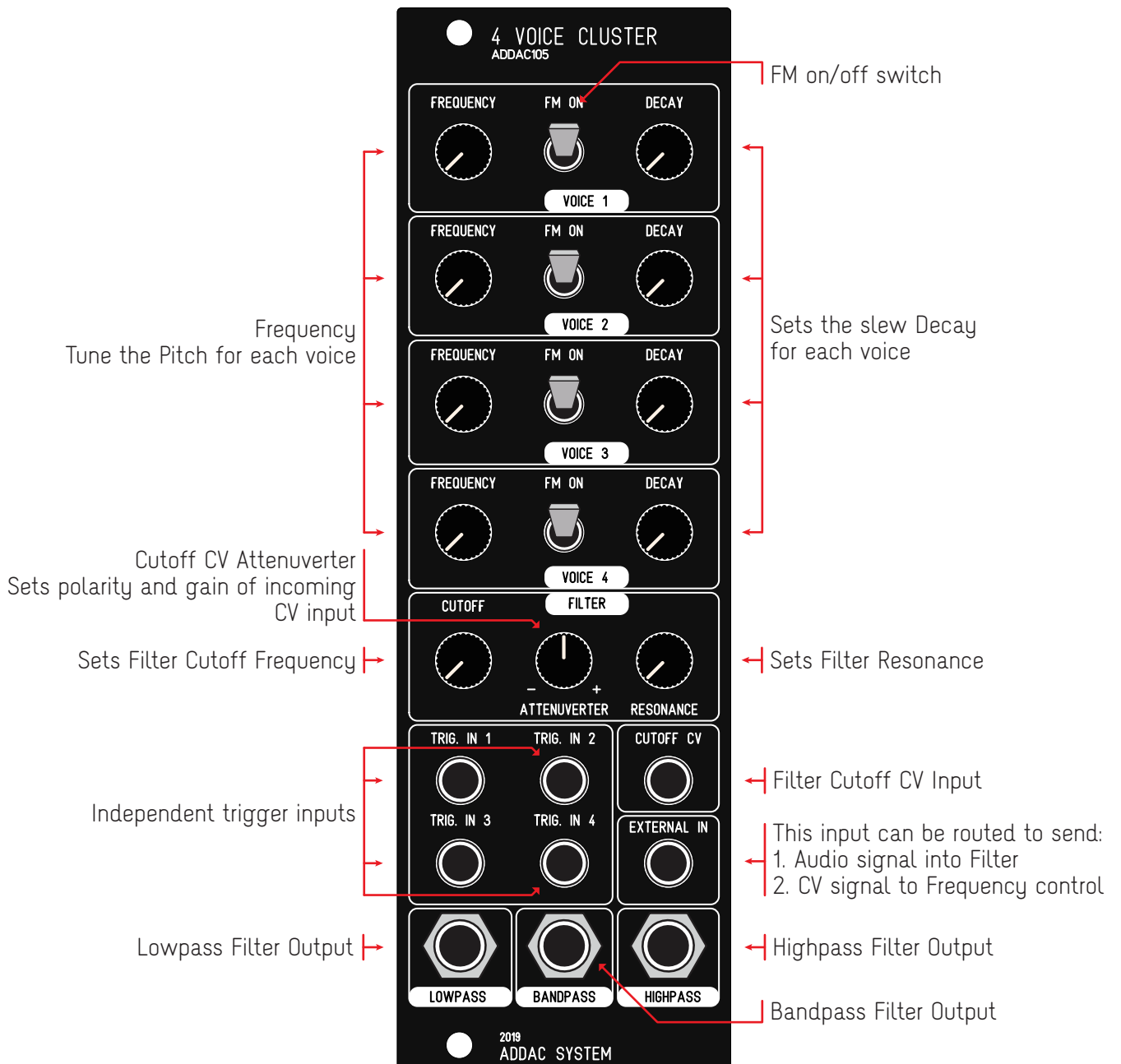
8HP

4.5 cm deep

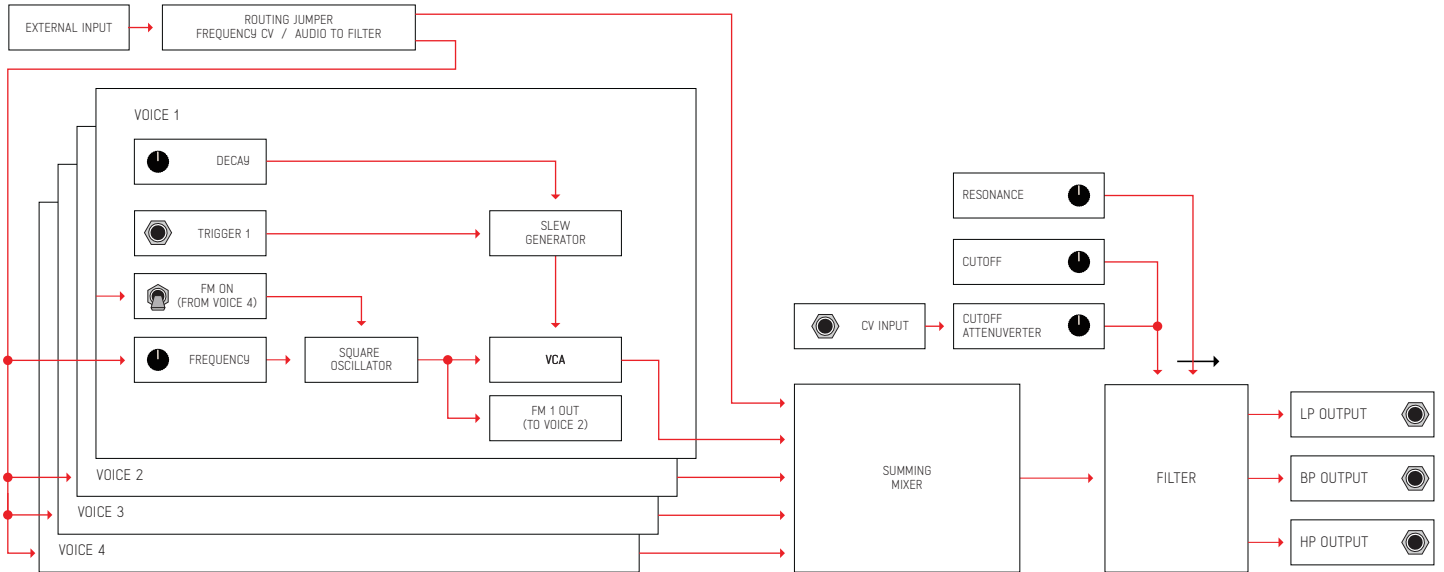
40mA +12V

40mA -12V

CONTROLS DESCRIPTION



ADDAC105 4 VOICE CLUSTER SIGNAL FLOW DIAGRAM



For feedback, comments or problems please contact us at:
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