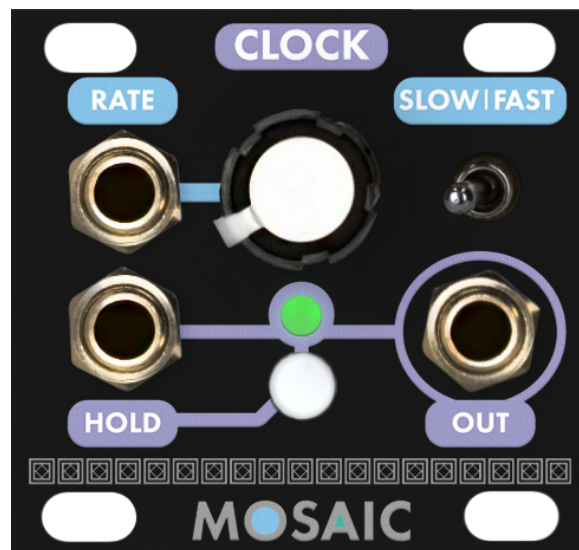


CLOCK

Manual



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THINGS TO KNOW

What is 1U?

1U is a measurement of height in the 19" rackmount standard. Eurorack modules adhere to 3 rack units, or 3U. Mosaic tiles adhere to 1 rack unit in height, and require appropriate rails to mount in a rack or modular case.

What 1U format are Mosaic modules?

We ship our modules with [Intellijel 1U formatted front panels](#). If you use the Pulp Logic format, don't worry! You can purchase Pulp Logic replacement front panels on our [Replacement Panels page](#).

Mosaic Color Guide

Each color indicates a function across the Mosaic lineup.

Green: Audio Signals

Purple: Gate Signals

Blue: Control Voltage

OVERVIEW

Description

Keep your patch in sync with our compact Clock. Clock is a configurable master clock source with knob and CV control over the clock rate, two range settings, and a pause feature via the Hold button / gate input. Take control of your composition, or just a portion of it, with Clock.

- Master Clock source
- Slow/Fast rate ranges
- CV over clock rate
- Button and gate triggerable clock hold

Tech Specs

- Width: 8HP
- 38mm
- Front Panel: Ships in Intellijel format. Pulp Logic replacement panels available [here](#).
- Current Consumption: +12V = 38mA, -12V = 7mA

Installation

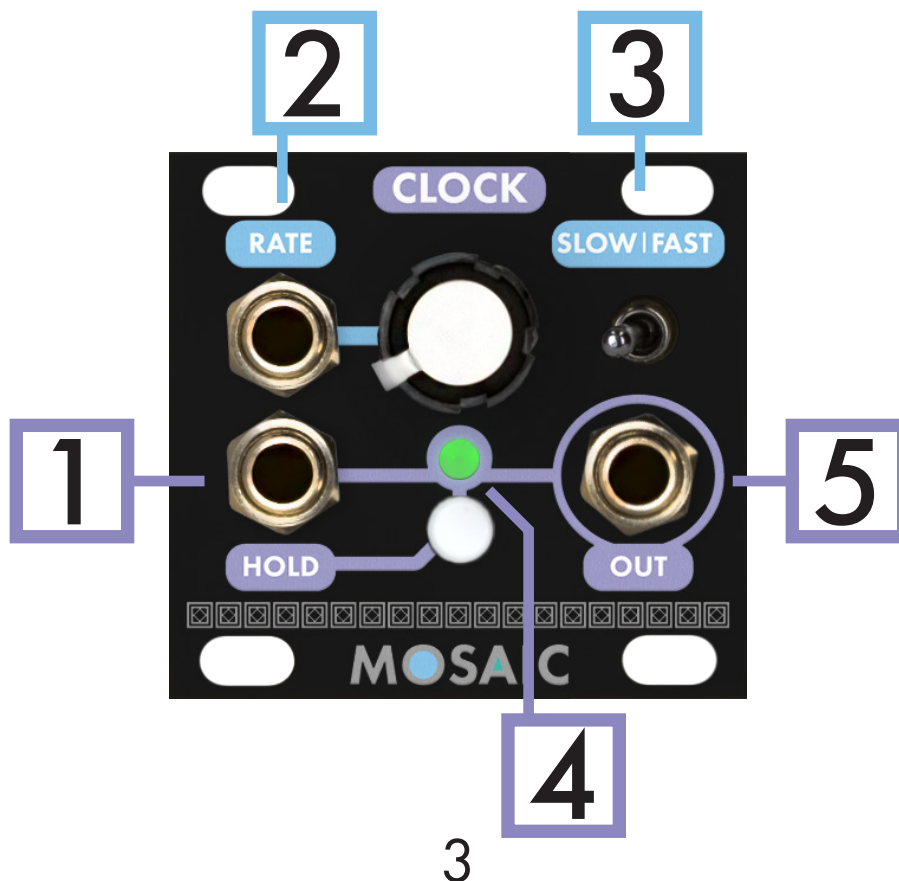
To install, locate space in your Eurorack case for your 1U module, and confirm the positive 12 volts and negative 12 volts sides of the power distribution lines. Plug the connector into the power distribution board of your case, keeping in mind that the red band corresponds to negative 12 volts. In most systems, the negative 12 volt supply line is at the bottom. The power cable should be connected to the module with the red band facing the front of the module.

DETAILS

How It Works

Typically, patch tempo is determined by a pulse wave low frequency oscillator (LFO). Dedicated clock modules are exactly that, and are designed to ensure consistency in pulse width and frequency/rate to keep your patch in sync. Depending on the complexity of the clock source module, it may also include pause abilities, clock dividers/multipliers, different waveforms, and more!

Diagram



DETAILS

1. Hold Gate In/Button

Pressing the Hold button or sending a gate trigger will start and stop the clock. Hold is active when the Rate LED is illuminated (not blinking).

Threshold: 2.5V

2. Clock Rate

Determines the clock rate sent out of the module. Clock rate is at its slowest when the knob is fully left, and at its fastest when the knob is fully right. CV input adds offset voltage to the rate knob position.

Range: 0V - 5V

3. Slow/Fast Toggle

Changes the Clock rate's range from slow to fast.

Slow Range: 10s - 34ms

Fast Range: 2.44s - 8.5ms

4. Clock Rate LED

Visual indicator for the Clock Rate. When Hold is active, the LED will illuminate green as opposed to blinking blue.

5. Clock Output

Outputs gates (50% duty cycle) determined by the chosen clock rate.

Range: 0V - 5V