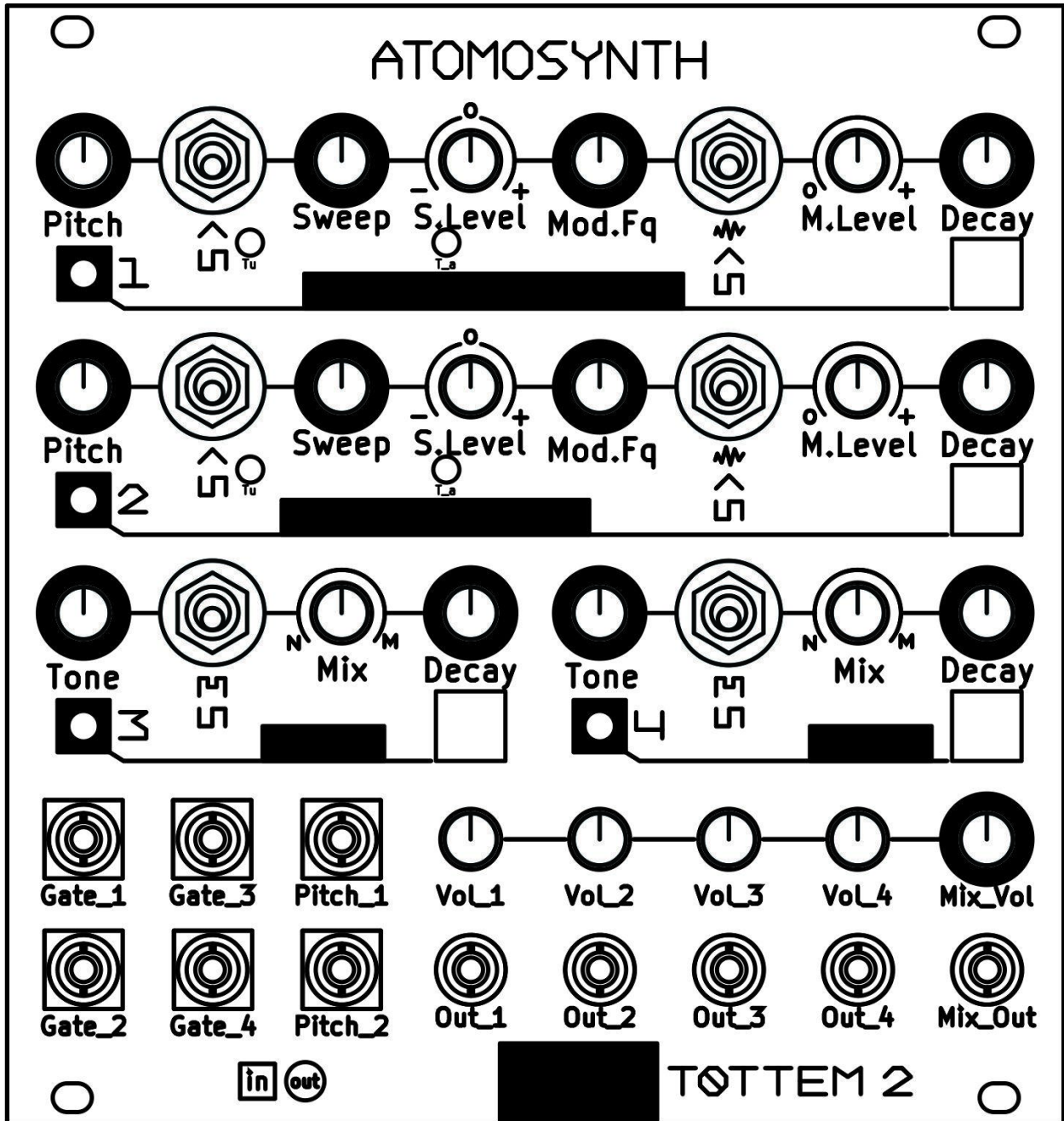


AtomoSynth Tottem version 2 Eurorack Module



The Tottem is a drum synthesizer eurorack module with four independent, all-analog percussion synth voices.

Specs.

- Four analog percussion synthesizer voices.
- Two voices feature, one oscillator, two decay envelopes, one LFO, and a noise generator.
- Two voices feature, one square wave and metal oscillator, one noise generator, one mixer, and a decay envelope.
- Output mixer.
- Individual outputs for each voice.
- Master mix output.
- Manual gate button for each voice.
- Current draw: 197mA +12V. 75mA -12V. 0mA +5V.
- 24HP wide.
- 25mm deep.

Voice 1 and 2 controls.

1. **Pitch.** This knob controls the pitch of the oscillator.
2. **Waveform switcher.** It sets the waveform of the oscillator to triangle wave (up position) or square wave (down position).
3. **Sweep.** This knob controls the sweep time of the first envelope generator which affects the pitch of the oscillator.
4. **S.Level.** This knob controls the level of the seep effect applied to the pitch, the level is zero (0) at the center, from there it increases the level as you move it to the right (+) and from the zero position to the left it inverts the signal (-).
5. **Mod.Fq** (modulation frequency). This knob adjusts the frequency of the modulator (LFO).
6. **Modulation waveform switcher.** It sets the modulation type: at the upper position, it sets to noise modulation (the Mod.Fq is disabled). At the middle position it sets to triangle waveform modulation, and at the down position, it sets to square wave modulation.

7. **M.Level.** This knob controls the level of modulation applied to the pitch of the oscillator.
8. **Decay.** It sets the decay time of the overall volume contour of the voice.
9. **Manual Gate button.** It can manually trigger the voice 1 and 2 respectively.

Voice 3 and 4 Controls.

1. **Tone.** This knob controls the tone of the metal oscillator, when the oscillator is set to square wave it controls the pitch of the square wave.
2. **Oscillator waveform switcher.** At the upper position, it sets the oscillator to metallic waveform mode. At the down position, it sets the oscillator to a square waveform.
3. **Mix.** This knob controls the mix between white noise (N) at the left and metal or square waveform (M) at the right.
4. **Decay.** This knob sets the decay time of the overall volume contour of the voice.
5. **Manual Gate button.** It can manually trigger the voice 3 and 4 respectively.

Patchbay connectors and controls.

1. **Gate_1, Gate_2, Gate_3, Gate_4.** These connectors are the gate input to trigger each voice. It accepts a positive gate or trigger signal of at least 5ms and from 5 to 12 volts.
2. **Pitch_1, Pitch_2.** These connectors can control the frequency of the oscillator of voices 1 and 2 respectively.
3. **Vol1, Vol2, Vol3, Vol4.** These knobs control the individual output volume of each voice.
4. **Mix_Vol.** This knob controls the output volume of the mix of all 4 voices.
5. **Out_1, Out_2, Out_3, Out_4.** At this connectors are available the individual output signal of each voice. When a cable is connected to any of these, the corresponding voice will be disconnected from the main mix.
6. **Mix_Out.** At this connector is available the main mix of all 4 voices.