TAKAAB — Odd Clock Divider

- Manual PDF

TAKAAB OCD - Odd Clock Divider – Siam Modular Manual PDF

Creative Applications for the TAKAAB OCD Odd Clock Divider

The TAKAAB OCD is a 2HP Eurorack clock divider focusing on *odd* and less common rhythmic divisions (1/3, 1/5, 1/7, 1/9 or optionally 1/6, 1/10). This unique approach opens the door to highly creative clocking, rhythmic, and generative possibilities in a modular synth environment.

Below are several creative uses for the OCD module, along with suggestions for modules you can pair it with:

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1. Polyrhythmic Sequencing

How:
Divide a master clock into non-standard ratios (e.g., 1/3, 1/5, 1/7…) and use each output to advance different sequencers, drum modules, or envelope generators.

Module Pairings: - **Sequencers:** (e.g., Make Noise Rene, Intellijel Metropolis, or any analog step sequencer) - **Triggerable Drums:** (e.g., Mutable Instruments Peaks, Tiptop Audio ONE, or Erica Synths Drum Series modules) - **Envelope Generators:** (e.g., Maths, Intellijel Quadra)

Result:
You'll achieve polyrhythmic patterns, constantly shifting relationships between parts, and evolving generative melodies or beats.

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2. Rhythmic Modulation

How:
Send various odd-division clocks into modulation destinations for asynchronous rhythmic movement—like modulating a filter cutoff, LFO reset, or sample-and-hold.

Module Pairings: - **VCF/VCA modules:** Modulate or open a VCA only every 5th or 7th clock pulse. - **S&H or Slew Generators:** Trigger a S&H (like Mutable Kinks, Doepfer A-148) with 1/7 for unpredictable but repeating modulation steps.

Result:
Create organic, evolving modulation where movement never quite repeats in sync.

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3. Clocked Logic and Boolean Rhythms

How:
Combine the odd-divided outputs using logic modules for unexpected rhythmic interplay.

Module Pairings: - **Logic Modules:** (e.g., Takaab 2XOR, Mutable Instruments Kinks, Intellijel Plog) - **Other Clock Dividers/Multipliers:** Cascade even/odd dividers for dense rhythmic textures.

Result:
Use AND, OR, XOR, etc., between divisions (e.g., 1/3 *and* 1/5) to produce even more complex and less predictable rhythmic triggers.

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4. Self-Resetting Clock Chaos

How:
Patch an OCD divided output (e.g., 1/5) back into the OCD’s RESET input or into another OCD/ECD’s reset, for cyclical yet phase-shifting rhythm resets.

Module Pairings: - **Chained Dividers:** Use the header connections or patch cable for OCD/ERC daisy-chaining (jumpers/cables included). - **Logic for Resequencing:** Logic modules can consolidate/reset multiple rhythmic divisions simultaneously.

Result:
Shifting, non-traditional loop lengths and evolving cycles—perfect for generative, non-repetitive music.

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5. Asynchronous Drum and Percussion Patterns

How:
Trigger drum voices with the odd division outputs (1/3, 1/5, etc.) independently from "on-the-grid" main drums.

Module Pairings: - **Modular Drum Modules:** Tiptop Audio (BD808, SD808, etc.), Noise Engineering Basimilus Iteritas, ALM Akemie's Taiko. - **Sample Players:** Trigger sample start with an odd division for shifting “offbeat” fills.

Result:
Unconventional drum fills, evolving breaks, or percussion patterns that feel “alive” due to their refusal to lock to 4/4 time.

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6. Generative Melodic Sequencing

How:
Step a quantizer or precision adder (e.g., Doepfer A-156, Intellijel Scales)

with an odd divider, while other sequencers run at standard or different divisions.

Result:
Melodies that interact with other parts in semi-random but ultimately predictable long cycles, creating generative melody/chord relationships.

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7. Clock-Based Probability and Randomization

How:
Trigger random modules (e.g., Mutable Marbles, Wogglebug) at odd divisions for irregular bursts of randomness.

Result:
Shifting, off-grid random gates or CVs for unpredictable but automatically cycling patterns.

Bonus: Integrator with the Takaab ECD

How:
Pair the OCD with the Takaab ECD (Even Clock Divider) using the daisy-chain headers and reset/cascade features. Mix both even and odd divisions for comprehensive rhythm generation.

Additional Tips

- The jumper to swap 1/9 for 1/6 is powerful for shifting patterns; consider bringing this function to your panel with the Takaab UXS.
- The outputs are 6V with a 50% duty cycle, so they work well with any typical Eurorack module expecting standard triggers/gates.
- Use in combination with clock delay or clock-multiplier modules for further rhythmic possibilities.

For more clock and logic patch ideas, visit the Generated With Eurorack Processor repository.