

Abstract Data — ADE-33 Event Boss

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Using the Abstract Data ADE-33 Event Boss for Hyper-Complex Percussion

The **ADE-33 Event Boss** is a Eurorack module tailor-made for innovative pattern and rhythm manipulation, making it ideal for musicians seeking dense, intricate, and hyper-rhythmic percussion. Below are targeted approaches and patch ideas specifically for maximizing polyrhythms, odd time signatures, and complex groove generation with this module.

Core Strategies for Advanced Percussion

1. Polyrhythmic Clocking & Input Feeding

- **Multiple Inputs:** Feed two or more unrelated clocks (e.g., 3:4:5:7 divisions) into **IN: GATE A1**, **A2**, and even **B/CV** (in Logic Mode).
- **Irregular Clocks:** Use looping or random triggers/LFOs not aligned with common tempos—great for evolving polyrhythm and cross-rhythm feel.

- **Multiclock Patterns:** Use a master clock split and divided/multiplied by modules like ADE-33's **Multiples Mode** for nested polyrhythms.

2. Complex Time Signatures

- **Multiplicity & Division:** In **Multiples Mode**, set division and multiplication factors (including nonstandard like $\div 5$, $\times 7$, $\times 12$) via CV for non-4/4 patterns.
- Trigger percussion voices with the ADE-33 output to create shifting/compound time signatures and pulses.

3. Probability & Randomization for Evolving Sequences

- **Probability Mode:** Insert slow LFOs into **GATE B/CV** to morph the probability, causing patterns to evolve, drop/hit notes unpredictably, or tie gates for rolling fills or bursts.
- **Flip-Flop & Inversion Modes:** Ideal for “glitch,” IDM, or breakcore-style percussive lines with unexpected reversals and inflections.

4. Logic Mode for Pattern Complexity

- **Boolean Combinations:** Patch two rhythmical signals into **A1 / A2** and **B/CV**, then switch logic types (AND, OR, XOR, etc.)—perfect for generating new, computationally complex percussion triggers from simple inputs.
- **Dynamic Logic Switching:** Use CV to flip which input is active (A1/A2), introducing time-variant logic routing in mid-performance!

5. Phase Shifting & Mark/Space for Groove

- **Phase Mode:** Apply CV (envelopes, stepped LFOs) to shift triggers ahead/behind or change mark/space ratios for swing, offset, and “drunken” rhythms.

- **Non-Quantized Shifts:** Tweak phase in ms for extreme, microtimed, shuffled patterns—push percussion off-grid for maximal groove.

6. Variable Gate Lengths for Percussive Voice Articulation

- **Gates Mode:** Manipulate how long a gate stays high/low to trigger envelope shapes with punch or accent (long gates for ROOOOOLL, short for TICK).
 - Use fast-moving CV on GATE B/CV for ratcheting and rapid-fire hi-hat/snare/backbeat triggers.
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Versatile Patch Ideas

Example 1: Complex Polyrhythm with Logic

1. Patch a 5-step clock to IN: GATE A1 , and a 7-step clock to IN: GATE B/CV .
2. Set to Logic Mode and try XOR or AND.
3. Output to a percussion module's trigger; you'll get a composite rhythm—perfect for metallic percussion or syncopated bass drums.

Example 2: Morphing, Evolving Beats

1. Send clock to GATE A1 , random triggers to GATE A2 .
2. Use Probability Mode, morph percentage with random/s&H/CV into GATE B/CV .
3. Output to open hats or rimshot—watch as the pattern densifies and thins out organically.

Example 3: Polymetric Layers

1. Master clock > clock divider (x5) > GATE A1 .
2. Master clock > divider (x4) > GATE A2 .

3. Multiples Mode, select mult/div factor for each local mode—assign different percussion voices to the ADE-33 outputs to create a shifting layered drum bed.

Example 4: Advanced Swing & Groove

1. Patch clock to GATE A1 , slow triangle or stepped random LFO to GATE B/CV .
2. Phase Mode, use Percentage or ms Shift, then output to closed hats or rimshots for off-grid, J Dilla-style “drunken” beats.

Example 5: Unique, Punchy Percussive Voice Shaping

- Use Gates Mode’s variable length outputs to trigger VCAs/EGs tied to percussion modules (kick/snare) for super punchy attacks or unusual decays.
- **Logic Hold** can “mute” a drum channel with performance gestures or accentuate offbeats with probability logic.

Further Tips for Maximum Percussive Uniqueness

- **Layer Multiple Event Bosses:** For extreme density, chain multiple ADE-33 units or cascade outputs through sequencers and other logic modules.
- **Modulate Everything:** Assign random, Euclidean, or chaos-based CV sources to all CV-controllable ADE-33 parameters for ongoing mutation.
- **Integrate with Effects:** Use the rhythmic gates/triggers to ping filters, VCA gates, or sync effects (delays, bitcrushers, etc.) for percussive textures beyond conventional drum machines.

Reference: For complete details, see the [ADE-33 Event Boss User Guide PDF](#)
