Nervous Squirrel — Conway's Game

- [Manual PDF](#)

[Conway's Game Eurorack Module Manual (PDF)](#)
(Based on images provided above)

Conway's Game Eurorack Module Cheat Sheet

A pattern generator using Conway's Game of Life, and a 64-output MIDI-to-trigger/gate converter.

Inputs & Outputs

Inputs

- **MIDI IN:**
- Accepts standard MIDI (5-pin DIN).
- Responds to notes C2 (36) – E7 (100)

- Controls which outputs are triggered in MIDI mode.

- **CLOCK IN:**

- Accepts gates/triggers or audio-rate signals to set simulation speed.

- Internal clock: 10Hz default, external up to ~270Hz (can operate "weird" above this).

- **RESET:**

- Button input (likely can be used with external trigger/gate).
- Clears current Game of Life loop and all stuck MIDI notes.

Outputs

- **64 TRIGGER/GATE OUTPUTS (8x8 grid):**
- One output per Game of Life cell.
- **Voltage:** 8V (trigger/gate)
- **Trigger Length:** 20ms (in trigger mode)
- Used for sequencing drums, envelopes, or other modules.

Controls / Switches

- **MIDI/LIFE Toggle:**

- Switches between MIDI mode (manual trigger control) and Game of Life automaton mode.

- **TRIGGERS/GATES Toggle:**

- Sets all outputs to either:

  - **Trigger Mode:** Fires a 20ms trigger pulse on every event.
  - **Gate Mode:** Output remains HIGH (8V) as long as cell is alive.

- **RESET Button:**

- Manually resets simulation/start conditions and clears stuck MIDI notes.

Usage Summary

- **Game of Life Mode**
- Select random start (auto or via RESET).
- Cells evolve per GOL rules, driving 64 output jacks.

- Simulation resets when cells die out or stabilize.

- **MIDI Mode**

- Incoming notes C2–E7 each trigger corresponding output.

- Can trigger all 64 outputs via MIDI.

- **Clock Control**

- Use internal or external clock (LFO, VCO, audio) for step timing.

- Very high rates (>270 Hz) may yield experimental behaviors.

- **Output Function**

- All 64 jacks output TRIG or GATE signals per pattern/mode.
- Patch directly to drums, envelopes, sequential logic, etc.

Technical Details

- **Width:** 20HP
- **Depth:** 43.5mm (behind 2mm panel)
- **Current Draw:**
- +12V: 80mA (GOL mode typical), max 215mA (all LEDs lit via MIDI)
- -12V: 0mA
- **Outputs:** 8V, 20ms (trigger), 64 outputs

Generated With Eurorack Processor