Nervous Squirrel — Zeno's Paradox

- Manual PDF

Zeno's Paradox Manual (PDF)

Zeno's Paradox Eurorack Module — Cheat Sheet

A unique, ultra-high division clock divider and audio mangler.

Quick Start

1. **Patch a clock or audio source** into `CLOCK IN` (>1V pulses work, max input ≈ 18kHz).
2. **Patch from any OUTPUT** to send a divided clock (or audio) elsewhere in your system.
3. **Use RESET** to sync/zero all divisions.
4. **Manual Reset Button**: Click to reset/hold all outputs.

Inputs, Outputs, and Controls Reference

Inputs

- **CLOCK IN**
- Type: CV or Audio
- Voltage: Any signal with >1V threshold

- Range: Up to ≈18kHz
- Accepts: Audio, pulse wave, white noise, gates, clocks
- **RESET IN**
- Type: Gate/trigger
- Action: Resets divider chain on rising edge

Manual Controls

- **MANUAL RESET BUTTON**
- Action: Push to (re)start/halt counters (hold to hold outputs low)

Outputs

- **30 Output Jacks**
- Arrangement: Each output is half the frequency of the previous (binary ripple counter)
- Output Level: 7V square pulse
- Divisions: /2, /4, /8, ... down to /1,073,741,824 (a billion)
- Each output LED indicates activity

Usage Tips

- **Basic Clock Divider:** Great for events at rare intervals (last LED flashes every 34 years at 1Hz!)
- **Sub-Oscillator:** Feed in any repeating audio (produces 1V/octave descending square subharmonics)
- **Audio Mangler:** White noise gives a "filtered noise" cascade; drums sound crunchy/lo-fi divided.
- **Extreme Timing:** Chain multiple modules for astronomical divisions (reset inputs let you sync up).

Technical Specs

- **Width:** 14HP
- **Depth:** 35mm
- **Current:** +12V 225mA (all LEDs on); −12V 16mA
- **Output Voltage:** 7V
- **Panel:** 2mm aluminum

Full manual and purchase info: https://nervoussquirrel.com/zenos_paradox.html

---

Generated With Eurorack Processor