

# Buchla and Tiptop Audio – 266t Source of Uncertainty

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## Creative Eurorack Patching With the Tiptop Buchla 266t "Source of Uncertainty"

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The 266t is a deep and inspiring random voltage generator inspired by Buchla's classic 200 series, offering several modes of randomness—fluctuating, quantized, stored, sample & hold, noise sources, and an integrator. Here are creative ways to patch it with other modules for sonic explorations:

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### 1. Animated Drone Generators

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**Patch Idea:** Use *Fluctuating Random Voltages* to modulate the cutoff or resonance of a low-pass filter (e.g., Mutable Instruments Ripples, Doepfer A-120) processing droning oscillators (e.g., Make Noise STO, Intellijel Dixie).

- **Bonus:** Send slow, undulating random voltages to wavetable position or wavefold amount for slowly morphing textures.
- **Stack:** Use one output to modulate filter cutoff, another for amplitude via a VCA.

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## 2. Non-Repeating Rhythmic Patterns

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**Patch Idea:** Send the *Quantized Random Voltage* to sequence the pitch of a drum synth (Noise Engineering Basimilus Iteritas Alter), or to randomize the pattern on a retrigger input.

- **Trigger source:** Clock the Quantized Random section with a clock divider or random gate generator (ALM Pamela's Pro Workout, Mutable Marbles).
  - **Use n+1 mode** for less change; use  $2^n$  for wide, unpredictable jumps.
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## 3. Randomized Melodies That Make Sense

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**Patch Idea:** Take *Stored Random Voltage* (*right output*) and carefully shape its "curve" to weight certain pitches. Feed into a quantizer module (e.g., Intellijel Scales, Doepfer A-156) with a chosen scale.

- **Result:** Unpredictable but musically cohesive riffs and arpeggios.
  - **Tip:** Modulate the "curve" with an LFO or envelope for evolving tone color and mood.
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## 4. Chaotic, Evolving Percussion

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**Patch Idea:** Use *Sample & Hold* outputs to modulate decay, pitch or filter settings on percussion modules (e.g., Tiptop 808 modules, Mutable Peaks).

- **Alternate Output:** Patch the "alt" outs to two different percussion voices for ping-ponging hits.
  - **Timing:** Clock S&H with a slightly off-grid trigger/LFO for irregular groove.
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## 5. Organic Timbral Variations

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**Patch Idea:** Patch the *Integrator* output to a VCO FM input (e.g., DPO, Verbos Complex Oscillator). Use it to smooth a stepped random CV, which creates glissy pitch slides or slowly shifting FM intensity.

- **Control:** Modulate the Integrator's smoothing pot with an LFO for transitions between stepped and smooth randomness.
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## 6. Noisy, Textural Soundscapes

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**Patch Idea:** Use *Blue/Pink/White Noise* to feed granular samplers or spectral processors (Mutable Clouds, Make Noise Morphagene).

- **Effect:** Run the noise through reverb/delay for shimmering beds, or use as audio rate FM for digital harshness.
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## 7. Unpredictable CV for Modulation Index or Morph Controls

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**Patch Idea:** Randomly modulate West Coast-style FM/AM/PM index with *fluctuating* or *sample & hold* outputs for evolving timbres in FM/PM oscillators.

- **Pairing:** Pair with a stereo VCA/panner (Intellijel Quad VCA, Make Noise X-Pan) for spatialized chaos.
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## 8. Self-Playing Generative Patches

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**Patch Idea:** Mult several random outputs to various destinations: one to a quantizer → oscillator pitch, another to filter cutoff, another to VCA

envelope decay, another to clock delay times—resulting in endlessly surprising generative pieces.

- **Modules:** Add a random clock generator (e.g., Mutable Marbles, Pamela's Pro Workout), slew limiters (Make Noise Maths) for additional shaping, or use logic modules (Intellijel Plog, Doepfer A-166) to combine random gates with intentional triggers.
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## 9. Randomized Sequencing

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**Patch Idea:** Use random voltages to control steps or parameters of a sequencer (e.g., Doepfer A-155, Intellijel Metropolis) for unpredictable sequence order, skipping, or probabilistic play modes.

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## 10. Random Audio-Rate Modulation

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**Patch Idea:** Run *white* or *blue* noise to the FM input of oscillators for noisy, metallic, or static-rich tones. Or use *sample & hold* output at audio rates to impart digital randomness (bitcrush-type sound).

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## General Module Pairings

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- **Quantizers:** for musical random voltages
  - **VCAs/Envelopes:** for dynamic modulation
  - **Filters & Effects:** for timbral shading
  - **Logic Modules:** to combine or route random gates
  - **Clock/Trigger Sources:** to drive sample & hold/quantized randomness
  - **Complex Oscillators:** to maximize timbral possibilities
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Feel free to experiment, stack modulations, and use subtle random sources for organic movement or full chaos for stochastic music.

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