

# Intellijel — Atlx

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## Creative Uses for the Atlx Expander with Other Eurorack Modules

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The **Atlx Expander** supercharges your **Atlantix** voice by breaking out dedicated waveform and filter outputs, plus a ring modulator. This opens up a host of unique patching possibilities within your system—here are some creative ways to exploit its expanded I/O:

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### 1. Parallel Waveform Mixing and Layering

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- **Patch Outputs:** Take the *sine*, *triangle*, *saw*, and *square* outs individually.
  - **Mixer Module:** Use a mixer (e.g., Intellijel Mixup, Mutable Veils, ALM Tangle Quartet) to combine several waveforms from Oscillator A and/or B.
  - **Usage:** Achieve custom complex waves, crossfades, or send blends to different destinations (parallel processing).
  - **Advanced:** Modulate levels with VCAs for wave morphing or evolve timbres under CV control.
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## 2. Creative Filter Routing

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- **Lowpass, Bandpass, Highpass, Phazor outs:** Route different filter outs to separate destinations.
  - **Spatialization:** Send each filtered stream to a different stereo channel (using a stereo mixer or panning module like Happy Nerding PanMix).
  - **Effects Processing:** Send the phazor out to a delay/reverb (e.g., Make Noise Mimeophon, Strymon MagneTo) for lush phase-washed textures while keeping the dry outs for punchy clarity.
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## 3. Self-Patching Mayhem

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- **Audio-Rate FM:** Patch a waveform out from oscillator A/B into any CV input of the filter or VCO for audio-rate frequency modulation.
  - **Filter Feedback:** Use a spare filter out (e.g., highpass) and patch it back into the Atlantix's audio input, or FM input, for overdriven, chaotic textures.
  - **Envelope Following:** Use something like Mutable Instruments Ears or Befaco Envelope Follower on a filter out for dynamic CV derived from your patch.
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## 4. Ring Modulation Explorations

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- **Patch two disparate sources** to X and Y inputs (e.g., any waveforms, external audio, or modulation signals).
  - **Destination Ideas:**
    - *Ring Out* into effects (distortion, reverb).
    - *Ring Out* used as a carrier for a vocoder or spectral processor (e.g., Make Noise Spectraphon).
    - *Ring Out* used for crazy percussion when combined with short, dynamic envelopes.
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## 5. Sub Oscillator Basslines

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- **Sub Square (A only):** Patch independently for thick sub bass while using main A/B oscillators for mid/high content.
  - **Split Across Effects:** Process the sub square through a lowpass filter and the main voices through distortion or waveshaping for clean, focused low end and wild tops.
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## 6. Parallel Modulation

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- **Use Dedicated Outs:** Send triangle from A to modulate a filter, square from B to clock a sequencer (such as Pamela's Pro Workout), or any other combination for unique rhythmic interaction.
  - **VCAs as Waveshapers:** Route wave outs into a VCA with fast envelopes for dynamic, percussive tones.
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## 7. Cross-Module Integration

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### Recommended Types/Modules:

- **Wavefolders (e.g., Intellijel Bifold, Serge Wave Multiplier):** Process raw sine or tri outs for rich harmonics.
  - **Complex Oscillators:** Feed filter or ring mod out into another oscillator's FM input for evolving timbres.
  - **Quad Envelope or LFO (Intellijel Quadrax, Maths):** Animate mixer levels or filter CVs for morphing, organic results.
  - **Samplers/Loopers (4ms Stereo Triggered Sampler):** Capture the various outs for later reprocessing/triggering.
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# Summary

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The Atlx expands the routing creativity of your Atlantix dramatically. By using mixers, VCAs, wavefolders, spatial processors, and utilities, you can turn it into a centerpiece of a constantly morphing modular patch.

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