

# Intellijel – Atlantix

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## Intellijel Atlantix + AT LX Expander: using them to create melodic parts

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The **Intellijel Atlantix** is essentially a complete **dual-oscillator analog voice** in Eurorack:

- **VCO A** = main melodic oscillator
- **VCO B** = second oscillator or modulation source
- **Mixer** = blends waves and auxiliary signals
- **VCF** = tone shaping / articulation
- **Envelope + VCA** = note dynamics
- **Mods / S&H** = motion, variation, pseudo-sequencing
- **AT LX expander** = extra waveform/filter outs + ring mod access

For melodic music, this means Atlantix can function as:

1. a **full monosynth voice**
  2. a **two-layer melodic source**
  3. a **bass / lead / arp voice**
  4. a **self-patching melodic generator**
  5. a **hub for external sequencers, envelopes, and utilities**
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# What the module gives you for melody

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## 1. A complete playable voice

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Atlantix already contains the full chain you need:

**Pitch CV** → **Oscillator(s)** → **Mixer** → **Filter** → **VCA** → **Output**

Specifically: - Send **1V/oct** pitch to **PITCH A IN [1.A]** - Send gates to **GATE [5.A]** - Take audio from **OUT [5.G]**

With no extra patching, the internal normals already connect: - Mixer → VCF - VCF → VCA - Envelope → VCA - Envelope → filter modulation - Mod sources → oscillator/filter FM destinations

So for melody, this behaves much like a semi-normalled analog synth voice.

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## 2. Strong oscillator relationships for harmonic melody

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### VCO A

VCO A is the main melodic oscillator: - octave + fine tune - saw + pulse in the mixer - PWM - sync - exponential FM - thru-zero linear FM

This makes it great for: - classic lead lines - bass lines - sync leads - expressive FM timbres - evolving melodic tones

### VCO B

VCO B can be: - another audio oscillator - an LFO - a pitch-following harmonic partner - a modulation source

The key melodic feature is the **PITCH SOURCE [2.3]** switch: - **A+B**: VCO B can follow PITCH A, optionally offset by PITCH B input - **B**: VCO B is independent

This is extremely useful for melody because you can make VCO B: - track the main melody in unison - track it at an interval - run independently as a second melodic line - act as a synced/fm modulator tied to the same keyboard/sequencer pitch

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## Best melodic use cases

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### 1. Classic mono lead voice

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This is the most straightforward patch.

#### Patch

- Sequencer/keyboard pitch → **PITCH A [1.A]**
- Gate → **GATE [5.A]**
- Audio out → **OUT [5.G]**

#### Settings

- Bring up **SAW [3.2]** or **PULSE [3.1]**
- Set filter to **LP**
- Use envelope on filter with **ENV [4.3]**
- Set VCA mode to **ADSR [5.6]**

#### Why it works

Atlantix has the classic subtractive architecture for melodic leads: - harmonically rich oscillator - resonant multimode filter - ADSR contour - optional drive at the VCA

#### Variations

- Add **SUB [3.3]** for a thicker lead
- Add **NOISE [3.4]** very subtly for breath/grit

- Use **SYNC A SOURCE = VCO B saw** and **SYNC TYPE = HARD** for classic sync leads
  - Use **DRIVE [5.7]** in SYM or ASYM for more aggressive solos
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## 2. Basslines

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Atlantix looks especially strong for bass.

### Why

- VCO A has **sub oscillator** options:
  - -1 octave
  - -2 octaves
  - logical OR pulse-style sub
  - Filter can be lowpass and resonant
  - VCA drive gives weight
  - Envelope can be very snappy in **FAST** mode

### Patch

Same as mono lead: - Pitch → **PITCH A** - Gate → **GATE** - Audio → **OUT**

### Suggested settings

- Mixer:
  - **SAW** medium-high
  - **SUB** medium-high
  - maybe a little **PULSE**
- Filter:
  - **LP**
  - moderate resonance
  - medium envelope amount
- Envelope:
  - fast attack
  - short/medium decay
  - low sustain

- short release
- VCA:
- **ADSR**
- maybe **SYM** drive

## Musical result

You get: - Moog-ish rounded bass - acid-like resonant bass - punchy techno bass - sync bass with bite

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## 3. Dual-oscillator interval leads

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Since VCO B can follow pitch from VCO A, you can build richer melodic voices.

### Method A: use VCO B as audio via AUX inputs

The mixer has two normalized AUX paths: - **AUX 1** can default to **VCO A triangle** or **VCO B square** - **AUX 2** can default to **VCO A sine** or **VCO B saw**

So you can bring VCO B into the main signal path without needing the expander.

### Patch idea

- Pitch CV → **PITCH A**
- Leave **PITCH B** unpatched
- Set **VCO B PITCH SOURCE [2.3] = A+B**
- Tune **PITCH B [2.2]** to an interval:
  - slight detune = thick unison
  - +7 semitones ≈ fifth
  - +12 semitones = octave
- Set **AUX 1 Source [3.10]** to VCO B square and raise **AUX 1 [3.5]**
- Or set **AUX 2 Source [3.11]** to VCO B saw and raise **AUX 2 [3.6]**

## Result

One incoming melodic pitch controls both oscillators, but VCO B can be offset to create: - octave leads - fifth-based heroic leads - detuned unison leads - tuned drone-plus-lead combinations

This is one of Atlantix's strongest melodic features.

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## 4. Cross-modulated melodic timbres

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For more advanced melodic parts, use VCO B to modulate VCO A.

### Internal normal advantage

If nothing is plugged into **FM 1 IN [1.D]**, VCO A's FM 1 source defaults to **MOD X**.

MOD X can select VCO B waveforms.

So you can: - choose VCO B sine/triangle/saw/square as MOD X source - send that to VCO A FM1 internally - choose **TZFM** or **EXP** - control modulation depth with **INDEX [1.4]** - control dynamic FM amount with **IM [1.3]**

### Melodic applications

#### Linear FM melodies

Use **TZFM** - good pitch stability - better for tuned melodic playing - rich but still musical harmonic movement

#### Exponential FM melodies

Use **EXP** - wilder and more vintage - pitch/timbre change together - better for expressive, unstable lines

### Great musical setup

- VCO B follows VCO A pitch with **A+B**

- Tune VCO B to a simple ratio (unison, octave, fifth-ish)
- Use **MOD X = VCO B sine**
- Raise **INDEX**
- Modulate index with the envelope via the internal IM normal

This creates notes that start bright/complex and settle into a purer pitch—  
excellent for: - plucked FM tones - metallic melodic motifs - expressive  
synth leads

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## 5. Oscillator sync leads

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VCO A supports both **hard** and **soft** sync.

### Default normal

If nothing is patched to **SYNC A [1.B]**, VCO A can sync either to: - **VCO B saw** - or **GATE** depending on **SYNC A SOURCE [1.13]**

### Melodic uses

#### VCO B as sync master

- Gives classic ripping sync lead sounds
- Sequence pitch into VCO A
- Let VCO B follow or offset pitch
- Sweep VCO A tuning for the signature sync harmonics

#### Gate sync

- Each note can restart the oscillator phase
- Great for percussive/plucky consistency
- Useful for tight bass or plucked melodies

#### Hard sync

Sharper, more aggressive, classic lead tone.

## Soft sync

Smoother, less abrasive, still harmonically rich.

For melodic content, sync is especially useful when you want: - one-note leads with lots of movement - repeated sequences that need timbral animation - expressive filterless or lightly filtered solo lines

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## 6. PWM melodies

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Atlantix gives VCO A pulse width and pulse width modulation.

### Internal PWM normals

If nothing is plugged into **PWM IN [1.F]**, the source can be: - **VCO B sine** - **Envelope**

### Melodic applications

#### Envelope PWM

- each note opens/closes pulse width
- great for plucks, brass-like leads, animated bass

#### VCO B PWM

- slow VCO B in LFO mode for moving pulse texture
- audio-rate VCO B for more aggressive harmonic animation

Because pulse width changes harmonic content dramatically, this is one of the easiest ways to make a repeating melody feel alive without changing notes.

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# Using the filter melodically

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Atlantix's filter is not just a tone control—it can become part of the melodic identity.

## 1. Pitch-tracking filter

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If nothing is patched into **FM 2 [4.B]**, the filter defaults to tracking **VCO A pitch**.

This is very useful for melody because: - higher notes can stay bright - lower notes remain warm - the voice feels more “played” across the keyboard

Use this for: - bass patches - expressive mono leads - patches with significant resonance

## 2. Envelope-shaped articulation

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The envelope is normalised to the filter and scaled by **ENV [4.3]**.

This gives classic melodic articulations: - pluck - sweep - punch - vowel-like attacks

## 3. Multimode filtering for different melodic roles

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- **LP**: best for basses and classic leads
- **BP**: focused, nasal, sequence-friendly
- **HP**: thinner melodic lines, useful in dense mixes
- **PHZ**: very interesting animated melodic textures

## Phaser mode for melody

The **PHZ** mode can make repeating melodic parts more animated and spatial without needing a separate phaser module. Good for: - arps - sequences - hovering melodic ostinatos

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# Using the envelope and VCA for phrasing

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Atlantix's ADSR and VCA determine how "played" your melody feels.

## Envelope ranges

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Three rates: - **FAST** - **MED** - **SLOW**

This makes Atlantix suitable for: - short staccato basslines - medium synth leads - long evolving drones or ambient melodies

## VCA modes

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### ADSR mode

Best for traditional melodic phrasing.

### GATE mode

Makes the voice behave like an organ: - immediate on - immediate off

Great for: - chiptune-ish lines - mechanical sequences - external envelope control

## Drive

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The VCA has: - **SYM** - **X** - **ASYM**

For melody: - **SYM** = tighter, more centered saturation - **ASYM** = dirtier, more characterful harmonics

This can help a lead or bass cut through without extra modules.

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## How the MOD section helps melody

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This section is where Atlantix becomes much more than a basic voice.

### MOD X and MOD Y

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Two assignable modulation outputs with: - 8 source choices each - unipolar/bipolar switching - polarity inversion

Defaults: - **MOD X** → **VCO A FM1** - **MOD Y** → **VCF FM1**

That means the module is already set up for dynamic self-patched melodic timbres.

### Useful melodic modulation sources

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You can choose for MOD X/Y: - VCO B sine/triangle/saw/square - sample & hold - noise - VCF - VCA or MIX depending on X/Y

#### Musical use cases

##### VCO B as LFO

Set **VCO/LFO [2.4] = LFO** Then MOD X or MOD Y can become: - vibrato - filter wobble - slow timbral drift

## Audio-rate modulation

Set VCO B to audio Use MOD X/Y for: - FM tones - filter FM brightness - harsh or glassy melodic timbres

## Using VCF or MIX as modulation

This creates feedback-like self-referential motion. Very useful for: - unstable evolving melodic tones - animated drones - living, semi-chaotic sequence timbres

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# Sample & Hold for melodic variation

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Atlantix includes S&H/T&H and noise, which can create melodic motion even without a traditional sequencer.

## S&H basics

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- **HOLD [6.A]** determines when sampling occurs
- **SAMP [6.B]** is the source being sampled
- **S&H OUT [6.C]** is the stepped result

If nothing is plugged in: - HOLD can default to **VCO B square** or **Gate** - SAMP defaults to **white noise**

## Melodic applications

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### 1. Random note generator

Patch: - **S&H OUT [6.C]** → **PITCH A [1.A]**

Then use: - quantizer externally if you want tonal notes - HOLD from gate for one new pitch per note - HOLD from VCO B square for clocked random stepping

This creates random melodies.

## 2. Per-note timbre variation

Instead of pitch, patch S&H to: - **VCF FM - Q - PWM - IM - FM 2**

This is often musically better than random pitch because the melody stays stable while each note gets a slightly different color.

## 3. Semi-random ornamentation

Use **Track & Hold** instead of Sample & Hold for more fluid, less rigid movement.

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# How Atlantix and ATLX work together musically

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The **ATLX expander** adds significant melodic flexibility because it exposes many internal signals as dedicated outputs.

## Extra oscillator waveform outputs

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ATLX gives dedicated outputs for: - VCO A sine / triangle / saw / pulse - VCO B sine / triangle / saw / square - sub out - multiple filter outputs - ring mod out

This matters for melody because you can use Atlantix as a **voice plus source bank**.

## 1. Parallel melodic layers

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Use the main **OUT [5.G]** as one complete melodic voice, while also taking: - **A SAW - B SIN - SUB** - dedicated filter outs

These can go to: - external VCAs - extra filters - effects - wavefolders - stereo processing

So one Atlantix sequence can become: - dry bass in the center - filtered sine octave layer - effected saw lead in parallel - sub reinforcement on another path

## 2. Multiple filter-output melodies

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The expander gives: - **LP** - **HP** - **BP** - **PHZ**

This is excellent for building melodic texture: - use **OUT** as your main voice - send **BP out** to delay/reverb for a second melodic shadow - send **HP out** to distortion for bright harmonics - send **PHZ out** to stereo effects for width

A single melody line becomes a layered arrangement.

## 3. Ring modulation for tuned melodic overtones

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The ring mod section has: - **X in** - **Y in** - **RING out**

Defaults: - X = Osc A sine - Y = Osc B sine

If VCO B tracks VCO A at a fixed interval, the ring mod can produce very musical sidebands.

### Melodic use

- Tune VCO B to octave/fifth/other interval
- Use **RING out** as a second audio layer
- Mix it externally with the main voice

This can produce: - bell-like melodic doubles - metallic leads - tuned shimmer on bass notes - inharmonic but repeating melodic color

For melodic composition, the best approach is often not to use ring mod alone, but to blend it under the main voice.

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# Practical melodic patch ideas

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## Patch 1: Simple analog lead

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**Connections** - Pitch CV → PITCH A - Gate → GATE - OUT → mixer/audio interface

**Settings** - SAW up - LP filter - ENV to filter moderate - ADSR mode - slight resonance

**Result** Classic subtractive mono lead.

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## Patch 2: Thick bass with sub

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**Connections** - Pitch CV → PITCH A - Gate → GATE - OUT → output

**Settings** - SAW medium - SUB high - LP 4-pole - fast envelope - drive ON - filter tracking active via FM2 normal

**Result** Solid melodic bassline with good low-end focus.

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## Patch 3: Dual-oscillator interval melody

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**Connections** - Pitch CV → PITCH A - Gate → GATE

**Settings** - VCO B pitch source = A+B - Tune VCO B to fifth or octave - AUX 1 source = B square or AUX 2 source = B saw - bring up AUX level - blend with VCO A waves

**Result** One-note melody with harmonic interval layering.

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## Patch 4: Sync lead

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**Connections** - Pitch CV → PITCH A - Gate → GATE

**Settings** - SYNC A source = VCO B saw - SYNC TYPE = HARD - VCO B tracks A+B - Sweep VCO A pitch knob while playing - use filter sparingly

**Result** Classic tearing sync lead for melodic solos.

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## Patch 5: Musical FM pluck

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**Connections** - Pitch CV → PITCH A - Gate → GATE

**Settings** - MOD X source = VCO B sine - FM1 uses MOD X normal - TZFM selected - VCO B tracks A+B - INDEX moderate - IM raised so envelope affects FM index - short envelope

**Result** Bright attack with harmonically rich but playable melodic notes.

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## Patch 6: Animated PWM melody

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**Connections** - Pitch CV → PITCH A - Gate → GATE

**Settings** - Pulse up in mixer - PWM source = envelope or VCO B sine - moderate PWM amount - LP or BP filter - medium ADSR

**Result** Warm animated sequence or lead with organic motion.

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## Patch 7: Melodic voice plus parallel shimmer using AT LX

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**Connections** - Pitch CV → PITCH A - Gate → GATE - Main OUT → main mix - AT LX RING OUT → reverb/delay return or second VCA - Optionally AT LX BP OUT → stereo effect path

**Settings** - VCO B tuned to interval from VCO A - Ring mod defaults to A sine and B sine

**Result** Main melody stays grounded, while ring mod and filter outs create a second melodic halo.

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## Best strategies for writing melodic music with Atlantix

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### 1. Keep VCO A as the “pitch anchor”

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For the clearest melodic result: - send your main sequence to **PITCH A** - let the rest of the module orbit around that pitch

This preserves musical coherence while allowing rich timbral movement.

### 2. Use VCO B for one of three jobs

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VCO B is most effective when you commit it to a role: - **harmonic partner** - **LFO/modulator** - **audio-rate FM/sync source**

Trying to do all three at once can get chaotic.

### 3. Use modulation for articulation, not just complexity

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For melodic parts, the best modulation destinations are often: - filter cutoff - PWM - FM index - resonance in small amounts

These preserve note identity while adding expression.

## 4. Use S&H for timbre, not only pitch

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Random pitch can be fun, but random timbral variation often sits better musically. Try S&H to: - filter cutoff - Q - pulse width - FM depth

## 5. Use the expander for arrangement

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ATLX is especially useful for taking one melodic part and splitting it into: - core voice - upper texture - sub reinforcement - effected duplicate

That is powerful for composition and mixing.

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# Summary

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The **Atlantix** is very well suited to melodic music because it combines: - a playable main oscillator - a secondary oscillator that can track, offset, sync, or modulate - an internal mixer with useful waveform normals - a flexible multimode filter - ADSR/VCA articulation - self-patching modulation tools - random/held voltage generation - optional expander outputs for layering

In practice, it excels at: - **basslines** - **mono leads** - **sync solos** - **FM plucks** - **dual-oscillator interval melodies** - **self-evolving sequences** - **layered melodic textures with the ATLX expander**

If you want, I can also turn this into: 1. a **set of 10 specific melodic patches**,

2. a **quick-start cheat sheet**, or

3. a **signal-flow diagram showing how to patch Atlantix as a lead/bass voice**.

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