

# Intellijel – Atlx

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- [Manual PDF](#)

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[Atlantix Atlx Expander Manual PDF](#)

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## Intellijel Atlx (Atlantix Expander) Cheat Sheet

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A quick reference for using the Atlx expander with the Atlantix synthesizer voice.

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### Overview

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The Atlx is an expander for the Intellijel Atlantix. It provides **16 additional jacks**, focusing on more oscillator and filter outputs, plus an analog ring modulator section. **No additional power is required (passive)**.

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### Input & Output Jack Summary

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Function	Jack Label	Type	Description	Voltage Range
X Input	X In	Input	Ring modulator input X	±5V (audio typical)
Y Input	Y In	Input	Ring modulator input Y	±5V (audio typical)

Function	Jack Label	Type	Description	Voltage Range
Ring Out	RING Out	Output	Ring modulated output (X*Y)	$\pm 10V$ max out
Filter: Lowpass	Lowpass	Output	Lowpass filter output	Audio, max $\pm 10V$
Filter: Highpass	Highpass	Output	Highpass filter output	Audio, max $\pm 10V$
Filter: Bandpass	Bandpass	Output	Bandpass filter output	Audio, max $\pm 10V$
Filter: Phazor	Phazor	Output	Phase-shifted filter output	Audio, max $\pm 10V$
Osc A: Sine	Sine	Output	Oscillator A: Pure sine wave	Audio/ $\pm 5V$ typical
Osc A: Triangle	Triangle	Output	Oscillator A: Triangle wave	Audio/ $\pm 5V$ typical
Osc A: Saw	Saw	Output	Oscillator A: Sawtooth wave	Audio/ $\pm 5V$ typical
Osc A: Square	Square	Output	Oscillator A: Square w/ PWM	Audio/ $\pm 5V$ typical
Osc A: Sub	Sub	Output	Oscillator A: Sub-square (-1 oct)	Audio/ $\pm 5V$ typical
Osc B: Sine	Sine	Output	Oscillator B: Pure sine wave	Audio/ $\pm 5V$ typical
Osc B: Triangle	Triangle	Output	Oscillator B: Triangle wave	Audio/ $\pm 5V$ typical

Function	Jack Label	Type	Description	Voltage Range
Osc B: Saw	Saw	Output	Oscillator B: Sawtooth wave	Audio/±5V typical
Osc B: Square	Square	Output	Oscillator B: Square wave	Audio/±5V typical

**Note:** Some waveform outputs are summed or duplicated in jack groupings, but both A & B are available.

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## Controls on Atlx

**Atlx is strictly an expander: it does not feature its own knobs, switches, buttons, or sliders.**

All controls are on the main Atlantix module.

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## Main Atlantix Controls (for context)

See the [Atlantix Manual PDF](#) for full details.

- **Knobs & Sliders:** Pitch, waveform mix/blend, filter cutoff/resonance, envelope controls, drive, etc.
- **Toggles:** Routing and range switches
- **Voltage Ranges for Modulation Inputs:** Typically ±5V or 0–8V normalized per Eurorack standards.
- **Audio Outputs:** Typically ±5V to ±10V swing

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## Usage Tips

- Use **Atlx outputs** for advanced self-patching, FM, AM, alternative filter routings, and to interface with other modules.

- **Ring Mod** is great for clangorous metallic or bell-like tones—patch any two signals to X In and Y In.
- **Filter outs** allow extraction of simultaneously available filter types.
- **Oscillator outs** allow external mixing, waveshaping, or dedicated FM/AM patching not possible from the main Atlantix panel.

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## Physical Specs

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- **Width:** 6HP
- **Depth:** 22mm
- **Power:** Passive (no extra power needed)

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