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SPEC ID       : QLA-BP-000000000901                                RESONANCE     : 9.6 / 10.0 CR
ATTRIBUTED TO : Intellijel Designs Lab                             CALIBRATED    : 2026-11-05
NODE ENDPOINT : https://qualia-teal.vercel.app/idea/b0000000-0000-0000-0000-000000000901
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Flux-Link 1U Interlock

[THE MECHANICS:]

The Flux-Link 1U Interlock is a precision-machined, anodized aluminum structural spine and bus-propagation bridge designed to mechanically and electronically fuse dual Intellijel 7U or 4U Eurorack cases into a unified, zero-latency desktop console. Mechanically, the extrusion utilizes a dual-cam latching system that locks into the existing threaded side-rail tracks of any standard Intellijel palette or performance case without requiring permanent case modifications. Electrically, the internal gold-plated ribbon spine bridges the power distribution boards, allowing a single AC-to-DC brick to safely distribute regulated +12V, -12V, and +5V rails across both joined chassis with zero ground-loop induction or voltage drop.

Integrated into the central aluminum faceplate is a high-density, low-latency analog CV/Gate summing matrix scaled to the standard 1U Intellijel format, featuring six bidirectional 3.5mm trrs patch points. This utility row provides dual buffered mults, precision voltage scaling, and balanced line-level stereo summing derived from the integrated high-fidelity audio output paths of modules like Cascadia and Rainmaker. By eliminating external patch snake clutter and consolidating power architecture, the Interlock transforms two independent portable cases into a monolithic studio instrument with structural rigidity matching custom console furniture.

[UTILITARIAN VALUE:]

This architecture unlocks a high-margin hardware ecosystem expansion by capitalizing on Intellijel's existing case infrastructure, driving multi-case adoption among power users who previously looked to third-party wooden cabinetry. By bundling the mechanical spine with a proprietary high-current power distribution upgrade kit, the unit commands premium retail positioning while significantly lowering manufacturing overhead through the reuse of standard extrusion profiles and 1U faceplate tooling.

[TARGET ECOSYSTEM:]

Professional electronic music producers and live performance modular artists utilizing multi-case Intellijel setups.

INTERACTIVE 3D TERMINAL & SOVEREIGN CRAFT ECOSYSTEM LINKS

1. Inspect Live 3D Simulation, Crash-Test BOM & 1-Click Claim/Delist:
   https://qualia-teal.vercel.app/idea/b0000000-0000-0000-0000-000000000901
2. Commission Verified Modular Sound & 3D Artisans (USD Bounties on Roily):
   https://roily-app.vercel.app/?tab=feed
3. Source Direct B2B Manufacturing & Code Execution (0% Tax on DealOff):
   https://deal-off.vercel.app/?from=qualia&title=Flux-Link%201U%20Interlock&bounty=250
4. Hardware Unit-Economics Essays & Original Books by C.J. Night:
   https://cjnight.substack.com