

CONTROL IP FOR FAST, PULSED POWER SYSTEMS

Autonomous Power Begins at the Converter

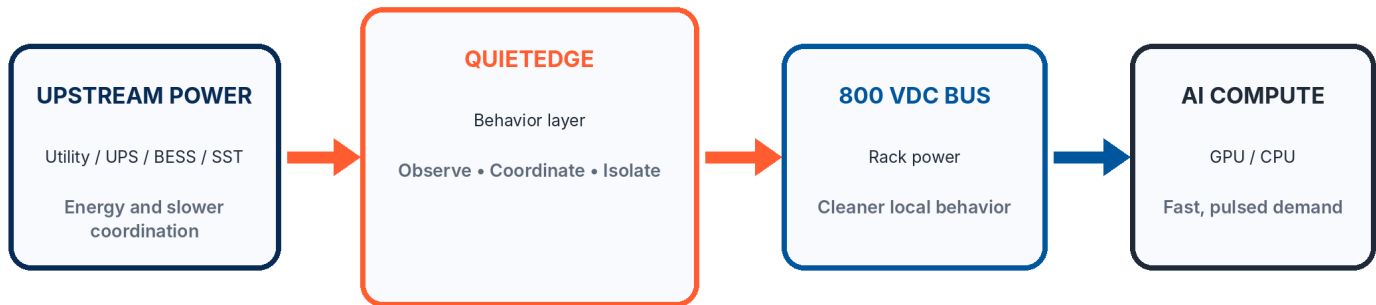
QuietEdge develops licensable control IP for power systems where conditions change faster than centralized supervision can respond.

AI workloads have turned power delivery into a transient-control problem.

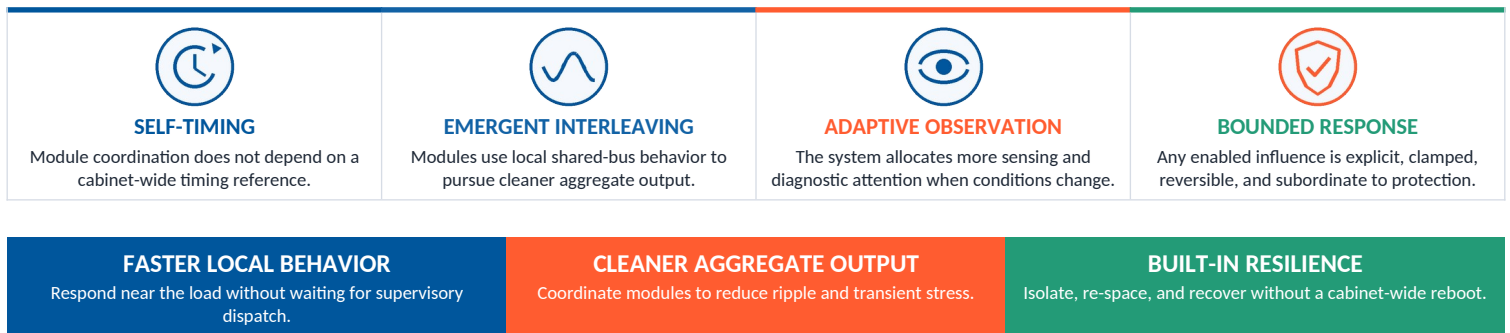
Fast load steps and load rejection arrive before upstream systems can fully react. The first capable response must occur close to the load—inside the converter and rack-power layer—then report a stabilized event upstream.

CONVERTER-LEVEL AUTONOMY

Not a generic energy-management system. QuietEdge operates where sensing, switching, coordination, and protection meet.



Hardware validates the behavior. Licensing allows the behavior layer to live inside partner hardware.

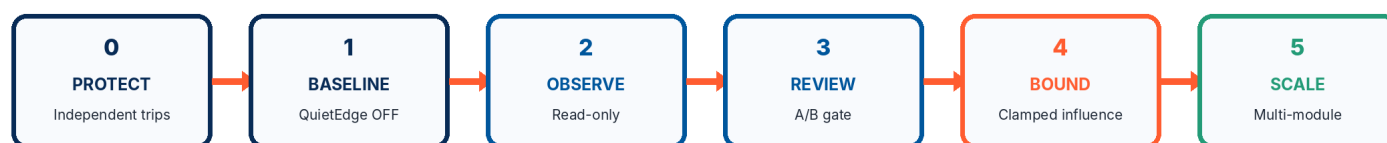


QuietEdge does not replace the grid, SST, UPS, or OEM power train. It adds a local behavior layer that can be evaluated read-only, then bounded, then scaled.

Designed to integrate. Built to license.

QuietEdge complements established OEM hardware, manufacturing, certification, and service channels.

01 EVALUATION & PILOT	02 CONTROL-STACK LICENSE	03 BUILD-TO-PRINT ARCHITECTURE
A low-risk path to determine whether QuietEdge sees useful transition structure on an existing platform. PARTNER RECEIVES - Baseline fingerprint and signal mapping. - Observer-only sidecar integration. - Fixed-versus-adaptive A/B report. - Bounded option only after review. Best for first technical engagement	QuietEdge behavior is integrated into an existing SST, UPS, PCS, DC/DC, or rack-power platform. PARTNER RECEIVES - Portable firmware and adapter interfaces. - Register and telemetry specification. - Validation procedures and tuning support. - Platform or field-of-use rights. Best for incumbent OEM platforms	A qualified partner receives a complete reference architecture designed for manufacture and partner-led certification. PARTNER RECEIVES - Electrical and control design package. - Reference firmware and control board. - Mechanical and thermal package. - Manufacturing test and validation plan. Best for new product platforms



No QuietEdge actuation before observer-only evidence passes formal review.

Initial market and platform expansion

- AI data-center rack power and 800 VDC distribution — the commercial beachhead.
- Solid-state transformer conversion cells and downstream DC architectures.
- UPS, BESS, PCS, rectifier, inverter, and modular DC/DC platforms.
- Adjacent fast, pulsed systems: e-mobility, defense, robotics, fusion, and industrial power.

AI data centers remain the focus. Adjacent markets are pursued through field-of-use licensing rather than a loss of commercial focus.

Engineering evidence

- U.S. patent-pending modular DC power architecture.
- Portable embedded control code and auditable register interfaces.
- Measured 4.07–4.69 μ s execution on TI AM2634.
- Multi-module and adaptive simulations; staged 800 V DAB validation underway.

Execution timing is code timing, not yet a full power-system response measurement. Detailed technical packages are available under NDA.

PRESERVE THE PLATFORM	START READ-ONLY	ADD DIFFERENTIATION	SCALE THROUGH LICENSING
Keep the OEM power stage, regulator, protection, and certification path.	Prove observation value before enabling any bounded influence.	Turn local behavior into measurable performance and service data.	Deploy inside existing manufacturing and customer channels.

Bring us your load profile or converter platform.

QuietEdge will define a bounded, observer-first evaluation that preserves your primary controller, hardware protection, and product roadmap.

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