



PRODUCT SHEET — SEPTEMBER 2026

Pulse — The Unified Deterministic Workspace

BriteMinds Global Technologies Inc. • Calgary, Alberta

The Origin

An independent Alberta researcher made 835+ discoveries across mathematics, physics, and information theory, declared a new academic field (Epistemic Dynamics), and created an entirely new technology category (Deterministic Zero-Trust). Pulse is the product of that research — a unified workspace that replaces 106+ software tools with one 2 MB physics kernel.

What is Pulse?

Pulse is the first unified deterministic workspace. It replaces your word processor, spreadsheet, design tool, code editor, CRM, calendar, video editor, security dashboard, and every other productivity tool with 15 integrated domains — all running on the same physics kernel. Unlike traditional suites where AI is bolted on, every surface in Pulse is natively intelligent. Every output carries a signed proof certificate. Intelligence flows between domains because they share one kernel — your financial analysis enriches your documents, your security audit informs your legal review, your meeting notes feed your project boards.

How It Works

1 Multi-Source Knowledge Ingestion

Structured and unstructured data enters through a governance membrane that validates, classifies, and maps every input to the knowledge substrate.

2 Collision Verification

Every knowledge claim is tested against the existing knowledge web through deterministic collision — contradictions are annihilated, consistent claims are reinforced.

3 Adversarial Challenge

Results are subjected to adversarial attack vectors designed to expose drift, hallucination, or inconsistency. Only verified results survive.

4 Convergence Scoring

A deterministic convergence score measures how thoroughly the answer has been verified across all available knowledge paths. No statistical approximation.

5 Signed Proof Certificates

Every delivered answer includes a cryptographically signed proof certificate — reproducible, auditable, and legally defensible.

Platform Proof Points

2 MB

RUST KERNEL, ZERO
DEPENDENCIES

36.7M

QUERIES PER
SECOND

15-digit

DETERMINISTIC
PRECISION

0

HALLUCINATIONS —
ARCHITECTURALLY
IMPOSSIBLE

5,250+

ADVERSARIAL
VECTORS, 0
BREACHES

0 bytes

MEMORY GROWTH
UNDER SUSTAINED
LOAD

FIPS

203 / 204 POST-
QUANTUM
COMPLIANT

Rust

MEMORY-SAFE,
ZERO-COST
ABSTRACTIONS

Four-Layer Architecture

SEALED DETERMINISTIC PIPELINE

1. Governance Engine	Policy enforcement, compliance gates, and regulatory mapping before any query executes
2. Sealed Execution	Deterministic kernel processes queries in an isolated, auditable environment — no external calls
3. Verification Gate	Every result passes adversarial challenge and convergence scoring before delivery
4. Pulse Delivery	Verified intelligence delivered with signed proof certificates and full audit trail

15 Workspace Domains

ONE KERNEL — EVERY CATEGORY

DOMAIN	REPLACES	CAPABILITIES
Intelligence	ChatGPT, Perplexity, AI tools	Verified AI, knowledge graphs, proof certs
Compose	Word, Docs, Excel, Notion	Rich text, spreadsheets, presentations, notes
Creator	Photoshop, Premiere, Canva	Design, video, audio, whiteboard
Finance	Bloomberg, QuickBooks	Analysis, invoicing, fraud detection
Marketing	HubSpot, Salesforce, Mailchimp	CRM, social, email campaigns, SEO
Communication	Slack, Teams, Zoom, Outlook	Chat, video, email, transcription
Scheduler	Google Calendar, Calendly	Calendar, meetings, booking, resources
Development	VS Code, GitHub, Docker	IDE, git, CI/CD, MCP tools
Security	CrowdStrike, Splunk	SCIF, post-quantum crypto, threat detect
Governance	OneTrust, Vanta	Compliance, HITL, audit trail, privacy
Sensory	No equivalent	Voice synthesis, hearing, prosthetics
Legal	Westlaw, DocuSign	Contracts, e-sign, discovery, IP
Project	Jira, Asana, Monday, Trello	Boards, sprints, timelines, resources
Operations	Tableau, Datadog	BI, pipelines, monitoring, dashboards
Browser	Chrome, Firefox	Zero-telemetry, domain trust, page verify

Two Deployment Modes

CLOUD WORKSPACE

Full 15-domain workspace, cloud-hosted, instant access. Founding member pricing from \$49/mo. Every surface carries proof certificates and deterministic intelligence.

SOVEREIGN MODE

Air-gapped deployment for maximum security. Custom governance, dedicated infrastructure, on-premise or private cloud. Full data sovereignty with zero external dependencies.

Beyond Software

The same 2 MB kernel that powers the workspace is a direct candidate for silicon embedding. Deterministic, bounded, zero-dependency — the properties that silicon demands.

KERNEL-ON-CHIP

2 MB deterministic kernel embedded in ASIC/FPGA. Edge intelligence for autonomous vehicles, medical devices, defence systems — verified intelligence without cloud dependency.

MEDICAL PROSTHETICS

Physics-derived voice and hearing prosthetics from the same kernel mathematics. On-device processing, no neural networks, no cloud. Natural voice and hearing restoration.

Key Capabilities

PLATFORM FEATURES

- **Deterministic Intelligence** — Pure mathematics, not statistical probability
- **Proof Certificates** — Cryptographically signed verification for every answer
- **Zero Hallucinations** — Architecturally impossible, not merely mitigated
- **Knowledge Collision** — Claims verified against the full knowledge substrate
- **Adversarial Hardening** — 5,250+ attack vectors with zero breaches
- **Governance Engine** — Built-in regulatory compliance layer
- **Full Audit Trail** — Every query, every derivation, fully reproducible
- **Post-Quantum Security** — FIPS 203/204 compliant from day one
- **Sovereign Deployment** — Air-gapped, on-premise, zero cloud dependency
- **Sub-Millisecond Latency** — 36.7M queries per second from a 2 MB kernel

Regulatory Compliance

FRAMEWORK ALIGNMENT

FRAMEWORK	STATUS	RELEVANCE
EU AI Act	Aligned	High-risk system transparency and auditability requirements
Canada AIDA	Aligned	Automated decision system accountability
UK AI Safety	Aligned	Frontier AI safety and deterministic guarantees
US SEC / NIST	Aligned	Financial AI governance and cybersecurity framework
SOC 2	Pathway	Enterprise trust and security controls
GDPR	Aligned	Data sovereignty and processing transparency

Pricing

FOUNDING MEMBER PRICING — LIMITED SEATS, LOCKED FOR LIFE

Starter	\$49 / month — Core workspace, proof certificates, 500 IU/month
Professional	\$199 / month — Full 15-domain platform, all capabilities, 2,000 IU/month
Team	\$149 / user / month — Professional for organizations, 5+ seats, shared governance, SSO
Enterprise	Custom — Sovereign deployment, air-gapped, unlimited seats, SLA guarantee

500 founding seats per tier. Post-founding pricing doubles. Founding rate locked for life. Average enterprise SaaS stack: \$300–500+/user/month.

Availability

DeeCi is live now at dtospulse.com. Founding member seats are limited. Early access to Sovereign Mode is available for qualified enterprise partners.

Corporate Structure

ORGANIZATION

Parent Company	BriteMinds Global Technologies Inc.
Product Company	DTOS (Deterministic Trusted Operating System)
Product Brand	DeeCi / Pulse — Unified Deterministic Workspace
Jurisdiction	Alberta, Canada

Contact

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Pulse — One workspace. Every category. Intelligence you can prove.

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