



ALETHRA CORE™

CORE-I, CORE-G, CORE-D

The Intelligence That Unifies Clarity

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ALETHRA CORE™ is the enterprise verification authority for the ALETHRA ecosystem. It runs ALETHRA AI Clarity™ models, validates all incoming data, manages local blockchain ledger entries, synchronizes truth across all devices, and provides regulator-ready reporting.

CORE™ is the command center for verified reality.

CORE CAPABILITIES

- Unified AI verification hub
- Blockchain synchronization (ALETHRA Ledger)
- Truth scoring & compliance validation
- Federated learning across facilities
- USDA/FDA/ESG-ready reporting APIs

MODEL OPTIONS

- **CORE-I** — Industrial (rack/wall mount)
- **CORE-G** — Gateway (data console)
- **CORE-D** — Desktop edge cube

HARDWARE

Processor:

8-core ARM Cortex-A78/x86 hybrid + 20 TOPS NPU

Memory: 16 GB LPDDR5

Storage: 1 TB NVMe (AES-256 encrypted)

Connectivity: 4x GigE, USB-C, HDMI diagnostic port, SFP fiber, RS-485, Wi-Fi 6 / optional 5G

Operating Range: -10 °C to +60 °C

FUNCTIONAL PERFORMANCE

Verification Throughput: >10,000 data points/sec

Latency: <15 ms



Model:

- **CORE-I:** Industrial Edition (rack / wall mount)
- **CORE-G:** Gateway Edition (data console)
- **CORE-D:** Desktop Edition (edge processing tower)

Blockchain Sync: 1.2 records/sec/module
MTBF: >70,000 hours

SOFTWARE

- ALETHRA AI Clarity™ Engine
- Clarity OS Kernel
- Local Ledger Service
- TraceChain API
- Predictive Analytics Suite
- Federated Learning Framework

APPLICATIONS

- Centralized clarity control
- Verified supply-chain ledger
- Regulated manufacturing compliance
- ESG/environmental reporting
- Multi-facility synchronization

SUMMARY

ALETHRA CORE™ is the brain of verified reality — the authority that validates every measurement, certifies every event, and keeps the entire ALETHRA ecosystem unified and trusted.

“INTELLIGENT CLARITY TECHNOLOGY”