

Defense Appliance Specification

Self-Contained, Ruggedized Platform for Forward-Deployed and Air-Gapped Environments

Key Capabilities: High-performance log processing + On-board AI + Portable form factor | **Form Factors:** Pelican Case (IP67, MIL-STD-810G) or 2U/4U Rack Mount | **Performance:** Up to 200K EPS, 10 TB/day, sub-second queries

Hardware Specifications

Compute (Predator)

Component	Specification
Processor	AMD EPYC 9354 (32-core, 3.25GHz, 256MB Cache)
RAM	8x 64GB DDR5 5600MHz ECC RDIMM (512GB total)
System Storage	1x 1.9TB NVMe PCIe4 M.2 SSD (SED, OPAL)

Data Storage (Graid T1010)

GPU-accelerated RAID: ~50x faster than standard NVMe

Component	Specification
Controller	Graid T1010 GPU-accelerated RAID
Drives	16x 7.68TB NVMe PCIe5 SSD 2.5" (SIE, ISE)
Raw Capacity	122.88 TB
Usable (RAID 10)	~61 TB

AI Processing

Component	Specification
GPU	NVIDIA RTX Pro 6000 Blackwell (96GB VRAM)
AI Framework	Ollama (Llama, Mistral, Mixtral, etc.)
Inference	~200+ tokens/sec
Context Window	Per model

Networking & Power

Interface	Qty	Speed
Management (i350)	2	1 Gbps RJ45
Data Ingest	2	10 Gbps
Expansion Slots	Available	Additional NICs

Power: 100-240V AC, Redundant 1200W (80+ Platinum), ~800-1000W typical

Performance Specifications

Log Processing

Metric	Base	Extended
Events/Second	100,000 EPS	200,000 EPS
Events/Day	8.6 billion	17.2 billion
Data Volume	~5 TB/day	~10 TB/day
Query Latency	<1 second	
Retention	30-90 days	60-180 days

AI Performance

Metric	Base	Extended
Query Response	5-10 sec	2-5 sec
Concurrent Users	5	10
Context Window	Per model	Per model

Form Factors

Pelican Case

- 28.6" x 17.5" x 10.7"
- ~75 lbs configured
- IP67, MIL-STD-810G
- Wheels + handle

Rack Mount

- 2U or 4U form factor
- Standard 30" depth
- 50-80 lbs
- Rails included

Software Stack

- **LogZilla Platform** – Full enterprise features
- **Ollama AI** – On-prem LLM (Llama, Mistral, Mixtral)
- **App Store** – Pre-built vendor parsers
- **Dashboards** – Defense-focused templates
- **OS** – Ubuntu 22.04 LTS (CIS Level 2)

Deployment Scenarios

Forward Operating Base

- Pelican case deployment
- Tactical network monitoring
- Comms system logs
- Sensor array integration
- Air-gapped operation

Mobile Command Post

- Vehicle-mounted ops
- Radio log aggregation
- GPS telemetry correlation
- Real-time AI analysis
- Expeditionary ready

Shipboard / Data Center

- 2U rack mount
- High-density ingest
- Multi-system correlation
- Long-term retention
- SCIF compatible

Security Features

Category	Features
Physical	Tamper-evident seals, TPM 2.0, Drive encryption
Software	CIS-hardened OS, RBAC, Full audit logging
Data	AES-256 at rest, TLS 1.3 in transit, Secure key mgmt

Environmental

Parameter	Pelican	Rack
Operating Temp	0°C to 40°C	10°C to 35°C
Humidity	10-90%	10-80%
Shock/Vibration	MIL-STD-810G	Standard

Compliance & Certification

Standard	Status
NIST 800-53	Control mapping available
DISA STIG	Compliance support
RMF	Continuous monitoring
FIPS 140-2	Encryption modules
MIL-STD-810G	Pelican case certified

Air-Gap Capabilities

Feature	Description
Licensing	File-based, no license server
Updates	Manual packages, offline install
AI	On-prem Ollama, no cloud calls
Telemetry	Zero external data transmission

Ordering Information

LZ-PREDATOR-PEL – Pelican Case

AMD EPYC 9354, 512 GB DDR5, 61 TB Graid, RTX Pro 6000 Blackwell (96GB), Unlimited License

LZ-PREDATOR-RACK – Rack Mount

Same specs as Pelican + rack rails and cable management

Delivery & Support

Config	Lead Time
Pelican Case	6-8 weeks
Rack Mount	4-6 weeks

Includes: Factory config, 72-hr burn-in, remote deployment assist, 1-yr warranty. Lead times subject to change based on supply chain availability.

Graid T1010 Advantage

Metric	Value
Throughput	110 GB/s
IOPS	19 Million
Rebuild Speed	50x faster than traditional
CPU Offload	Zero CPU overhead

Learn more: graidtech.com

Current Status

Hardware Design	Complete
Graid Integration	In Progress (Q1 2026)
GPU Integration	In Progress (Q1 2026)
First Ship	Q2 2026

Contact LogZilla for early access program details.