eXpando

AVALANCHE PLATFORM

Moveable rugged edge storage & computing

MIL-STD-810
Developed in Sweden

Avalanche is a Swedish-developed, moveable and purpose-rugged data platform developed for secure storage and transport of critical data. It combines ruggedized hardware a secure software architecture with S3 object storage support.

Avalanche is built on MIL-STD-810 rugged hardware powered by a Intel® Xeon® processor. It supports up to 480 TB RAW of storage and high performance networking using dual SFP based 100 Gbit/s ports.

Avalanche supports a S3 API-driven object storage solution. It runs on an immutable operating system with container-based isolation and no third-party software installation. The platform supports standalone, clustered and fully air-gapped operation with controlled updates.

Housed in a rugged aluminum enclosure, the platform offers superior protection against shock and vibration.

Developed in Sweden, Avalanche is built to strengthen resilience, continuity capability and digital sovereignty in environments where external infrastructure cannot always be relied upon.

CURRENT PLATFORM CAPABILITIES

- **API-driven architecture with S3 object storage support**
- **Multi-layer encryption (TLS in transit, disk encryption at rest, TPM-based protection)**
- **Customer-controlled key management (BYOK, KMS support)**
- **Immutable OS with container-based isolation**
- **Storage capacity – up to 480 TB RAW**
- **Dual SFP ports supporting high speed networking up to 100 Gbit/s**
- **Purpose-rugged design MIL-STD 810**

PLANNED PLATFORM DEVELOPMENT

- **Integrated compute capability for edge workloads**
- **Containerised application runtime**
- **Expanded orchestration and clustering**