



WHY PURCHASE ASINE PRODUCTS?

The Case for Industrial-Grade, Defense-Validated Memory and Storage

ASINE was founded as a spin-off of M-Systems — the company that invented Flash technology — and has been engineering ruggedized storage for the world’s most demanding environments for over 25 years. Our customers do not ask for cheaper memory. They ask for memory that works: in the field, under full load, across the full lifecycle of systems specified once and required to perform for a decade or more.

COMPANY STRENGTHS

Industrial-Grade Components	Grade-A NANDs, class-3 PCBs, and industrial-grade assemblies throughout. No consumer-grade components enter our supply chain.
No China Assembly or Active Components	Not assembled in China. No active components sourced from China. Enables a true Configuration Freeze — a guarantee most vendors cannot offer.
Lead Time Resilience	Structurally less exposed to the global semiconductor shortage cycle. Lead times are realistic and sustainable — not estimates that collapse under market pressure.
FFF Longevity	Form, Fit, and Function longevity is a core design principle. Legacy products supported for 17+ years — long-lifecycle programs maintain qualification without costly re-certification.
Customization & Tailoring	COTS products and fully customized solutions. Program-specific form factors, firmware, temperature grades, and encryption profiles are standard capabilities.
System-Level Support	Support model operates at the system level — not just the component level. Engineers engage with integration challenges, qualification, and field failure analysis.
Competitive Pricing	Competitive in absolute price or price-to-performance ratio when lifecycle cost, field reliability, and re-qualification avoidance are included.

SELECTED CUSTOMER BASE

The following organizations have qualified, integrated, and deployed ASINE storage in active programs:

Japan / Asia	USA	Europe
Toshiba	General Dynamics	SAAB
Hitachi	Lockheed Martin	Boeing
Mitsubishi Electric	GE	Airbus
IAI	Elbit Systems	Turkish Airlines Technic



TECHNICAL DIFFERENTIATORS

Extreme Capacity Range	SSDs from 60GB to 15TB today; 30TB/60TB configurations in development for IT server and storage infrastructure.
Industrial & Extreme Temperature	All products qualified to I-Temp (-40°C to +85°C). Many qualified to Extreme-Temp (-50°C to +105°C). Consumer flash rated to 0°C is not a substitute.
Conduction Cooling	Supports conduction-cooled, fan-less operation — essential for sealed defense enclosures, airborne platforms, and environments without forced-air cooling.
SPOR / PLP Without Supercapacitors	Sudden Power-Off Recovery and Power-Loss Protection implemented without supercapacitors — preserving capacity while maintaining full data integrity on unexpected power removal.
Endurance Without Degradation	pSLC NAND delivers better endurance and full performance even at capacity — a structural failure mode in TLC-based commercial drives. Addition 60X endurance for our SCM drives
AES-256 & OPAL Encryption	Hardware AES-256 encryption and TCG OPAL standard. Tested and validated across multiple active programs. Crypto SSD data encoding also supported.
All NAND Technologies	SLC, pSLC, MLC, and eNAND TLC across medium and high capacity configurations — enabling precise endurance and cost optimization per application.
Secure Erase — All Standards	All worldwide secure erase and sanitization standards supported. Hardware-signal triggered. Guaranteed completion in under 12 seconds.
SMT Modules	SMT NVMe modules for high-volume applications: superior endurance at higher capacity with minimal board footprint for embedded defense platforms.
High-Altitude / Radiation Tolerance	Neutron and gamma radiation resistant. Qualified to 100,000 ft for mid-range aerospace applications. Also LEO space Proton resistance Flash Memory.
Ship-to-Production (STP)	STP scheduling aligned to the customer's production calendar — reducing inventory burden and enabling just-in-time program delivery.
Conformal Coating	Real conformal coating per MIL-STD processes (optional) — moisture, corrosion, and vibration protection for the most demanding field environments.

The question is not whether your application can tolerate storage failure. It cannot. The question is whether your component selection reflects that. ASINE products are engineered to the answer: no wear-out, no thermal compromise, no lifecycle surprise.