

PRODUCT BRIEF | Memory & Storage for Military

MEMORY & STORAGE SOLUTIONS FOR MILITARY APPLICATIONS

Designed and manufactured in the USA at an ITAR & AS9100-certified DoD trusted facility, Viking Technology Memory and Storage are high reliability solutions designed and optimized for Military & Aerospace applications with advanced military security features.

Viking Technology's rugged military designed SSDs combine large flash storage capacities with ultra-reliable performance. These SSDs are rigorously tested and independently verified to MIL-STD-810 to operate in harsh environments:

- ▶ Extreme temperature, Thermal Shock & Cycling
- ▶ High Humidity, Salt Fog, Fungus
- ▶ Mechanical Shock & Gunfire Vibration
- ▶ Blowing Dust & Sand
- ▶ Explosive Atmospheres
- ▶ Low Pressure – High Altitude



Rugged Military, Defense Electronics, Homeland Security – Ground, Sea & Air

Mobile Hand-Held Field Computers & Mission Data Recorder Instruments

Aerospace Avionics & Cockpit Instrumentation

Unmanned Ground Vehicles/ UAVs/Robotics

Guidance Systems/Telemetry/ Tracking/GPS

Surveillance/Mapping/ Reconnaissance

THE VIKING VALUE ADVANTAGE

- ▶ ITAR & AS9100, TL 9000 & ISO 14001 Certified
- ▶ USA based R&D, Development & Production
- ▶ Advanced Packaging Expertise
- ▶ DoD specified testing capabilities (i.e. TDBI)
- ▶ Long-standing strategic partnerships & comprehensive supply-chain management
- ▶ Obsolescence mitigation
- ▶ Locked BOM under customer PCN control
- ▶ Localized Field Application Engineering for complete pre & post sale technical support

MILITARY APPLICATIONS

TCG OPAL 2.0

Subsystem Class (SSC) 2.0 is a set of specifications for self-encrypting drives that present hierarchy of security management standards to secure data from theft & tampering. Hardware-based data encryption to protect the confidentiality of data at rest.

HARDWARE AES 256-BIT ENCRYPTION

A 256-bit key is used to protect the data written. When enabled, the host system is required to send a key to the SSD to access the encryption data. Since it is a hardware encryption engine built into the controller silicon as opposed to software, encryption happens on the fly & extremely fast.

CONFORMAL COATING

Viking can offer products with protective layer/ conformal coating to shield against dust, chemical, extreme temperatures, moisture & corrosion.

OPERATING & NON-OPERATING

Customer & extreme ranges for humidity, vibration, shock, altitude, temperature

ATA SECURITY FEATURE SET

The ATA security feature set has a password locking and unlocking feature and security erase feature. Using the security from this feature set will only erase the user data area.

HARDWARE JUMPER TRIGGERED WRITE PROTECT, NSA 9-12, QUICK ERASE OPTIONS

A jumper on the SSD can be configured to support a write protect or quick erase feature. When write protect is enabled, all host system writes will be ignored.

MISSION CRITICAL ATTRIBUTES

Hardware drive erase/sanitize, Hardware erase status, Hardware write protect, End-to-End data path protection, pFail/Power loss data protection media destruct – NAND, DRAM

MILITARY OPTIMIZED DATA SECURITY

Serving the military market for over 2 decades, Viking Technology storage solutions provides uncompromised data security capabilities and absolute privacy, preventing all unauthorized access to sensitive information through fast military secure erase of password protected AES-256 encrypted data, key and data map. These storage solutions can be further optimized for NSA and DoD purge/sanitization protocols using software commands:

- ▶ NSA/CSS
- ▶ USA Army
- ▶ Air Force
- ▶ DoD5220.22-M
- ▶ Navy NAVSO
- ▶ RCC-TG IRIG



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