

# EMBEDDED STORAGE SOLUTIONS

for military and embedded applications

military | aerospace | defense electronics | homeland security | UAVs | mapping | GPS | surveillance | industrial automation | gaming



DRAM  
Technology

SSD  
Technology

Hybrid  
Technology

# SATACUBE

Embedded Solid State Drive

3Gb SATA

Up to 240GB

1" Form Factor

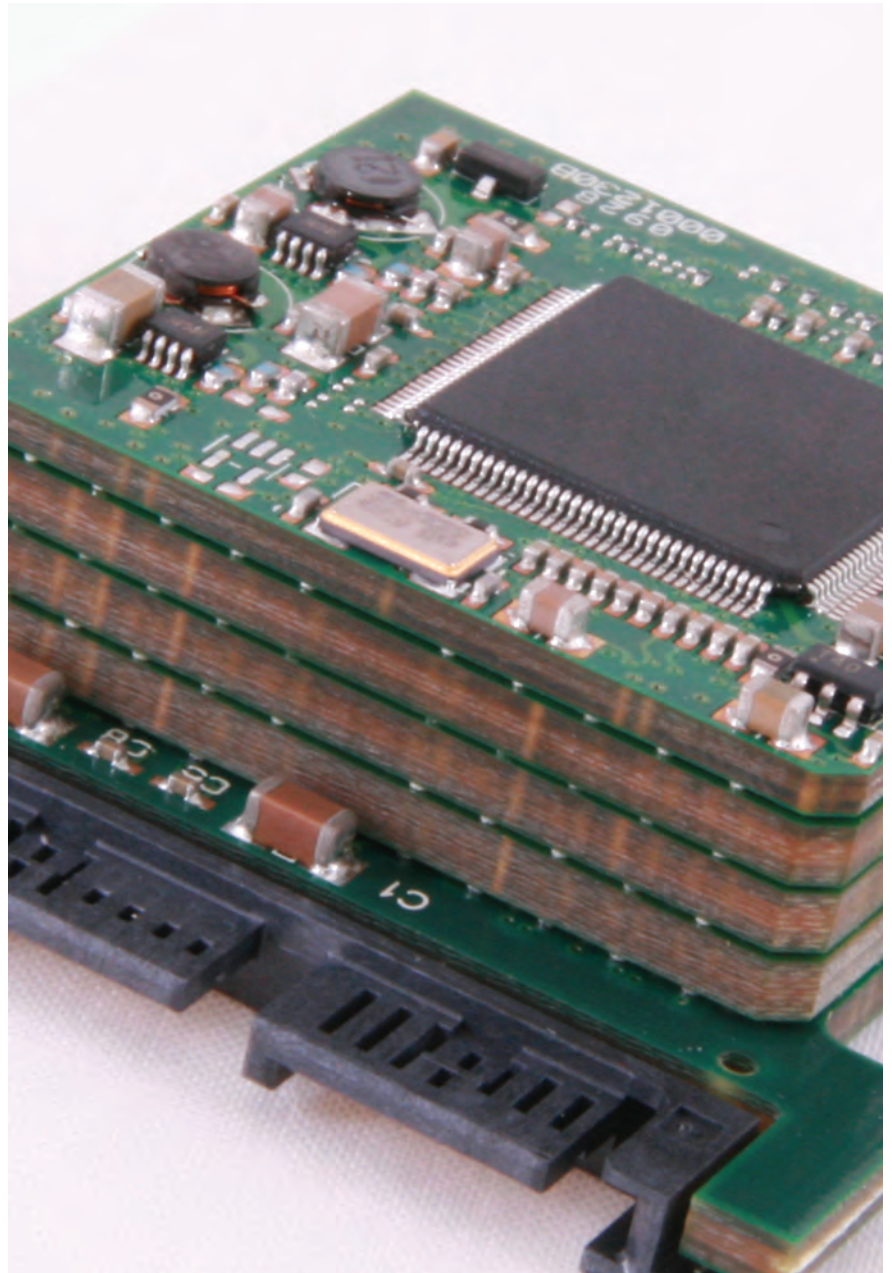
Solderable/Removeable

85% Smaller Footprint  
than a 2.5" HDD

Bootable

## Features

- Purge security suite
- Thermal sensor
- Conformal coating (optional)
- EMP resistance and ESD protection
- Shock resistant mounting points
- Industrial temp - extended burn in
- Patented Multi-Chip Packaging (MCP) technology



Delivering high-capacity solid state storage in space constrained applications

SATACube<sup>3</sup> is the embedded SATA SSD in an ultra small form factor designed for military, embedded and industrial applications. SATACube<sup>3</sup> is the optimum solution for mission critical applications requiring the benefits of high capacity, non-volatile solid state storage in the smallest mechanical footprint available today. SATACube<sup>3</sup> comes in BGA solderable and standard uSATA connector packages with available capacities ranging from 25GB to 240GB.

# RUGGEDIZED FLASH

Flash Solutions for Embedded & Military Applications

Small Form Factor

20G Vibration

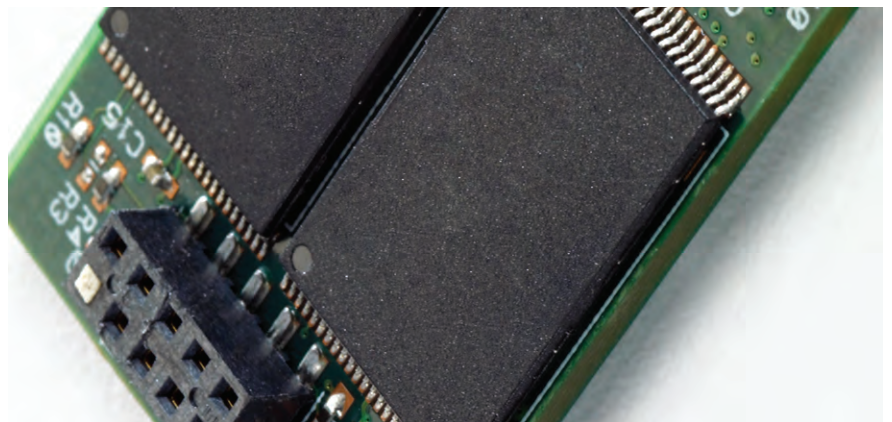
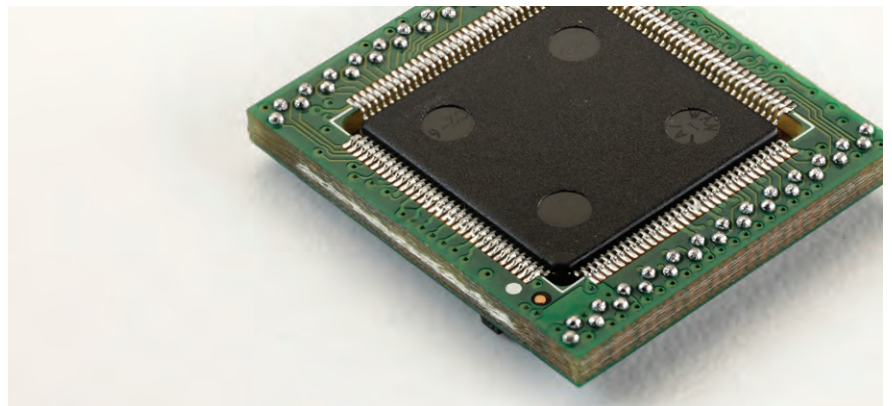
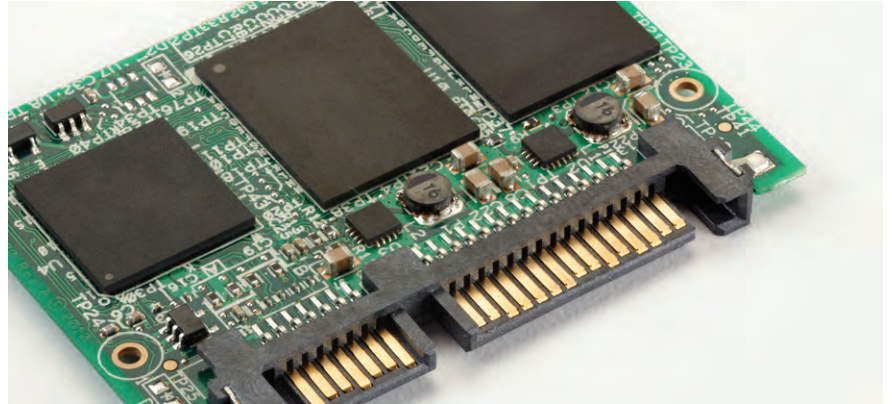
Solderable/Removeable

Application Optimized

Extremely Ruggedized

## Features

- Purge security suite
- Advanced SMART command support
- Built-in AES-128 encryption
- EMP resistance and ESD protection
- Intelligent write management
- Military-level environmental testing
- Performance-throttling to guarantee techniques for optimized endurance service life



	SlimSATA	Discrete Flash Card	eUSB
Capacity	Up to 115GB	Up to 8GB	Up to 16GB
Sustained Transfer Rate	250 MB/s	20 MB/s	34 MB/s
Interface	SATA	PATA / CF	USB
Dimensions (millimeters)	54 x 39 x 4	20.4 x 22.7 x 3.4	26.6 x 36.9 x 6.5
Test Standard	MIL-STD-810	MIL-STD-810	MIL-STD-810
Vibration	16.4g rms	16.4g rms	16.4g rms

# ELEMENT SSD

Ruggedized SSD for Military Applications

60,000 IOPS

6Gb SATA & SAS

Up to 480GB

2.5" & 1.8" Form Factor

AES-256

Power Fail Data Security

Secure Erase & Purge

MIL-STD Shock & Vibration



## High performance ruggedized solid state drives

Engineered for the highest levels of performance and reliability, Viking Technology Element SSDs feature a 6Gb SAS or a 6Gb SATA interface and an advanced parallel NAND channel architecture that delivers best-in-class performance for transaction intensive applications. Element SSDs feature an unparalleled host to NAND write amplification efficiency, for unprecedented endurance. Coupled with patented error detection/correction capabilities and protection against normally catastrophic flash failures, Element SSDs deliver the ideal high-performance storage solution for mission critical military applications.

# HIGH RELIABILITY MEMORY

DDR3, DDR2, Non-Volatile

Extended Temp Test

Highest Class Capacity

Zero Down-Time

High-Reliability

JEDEC Compliant

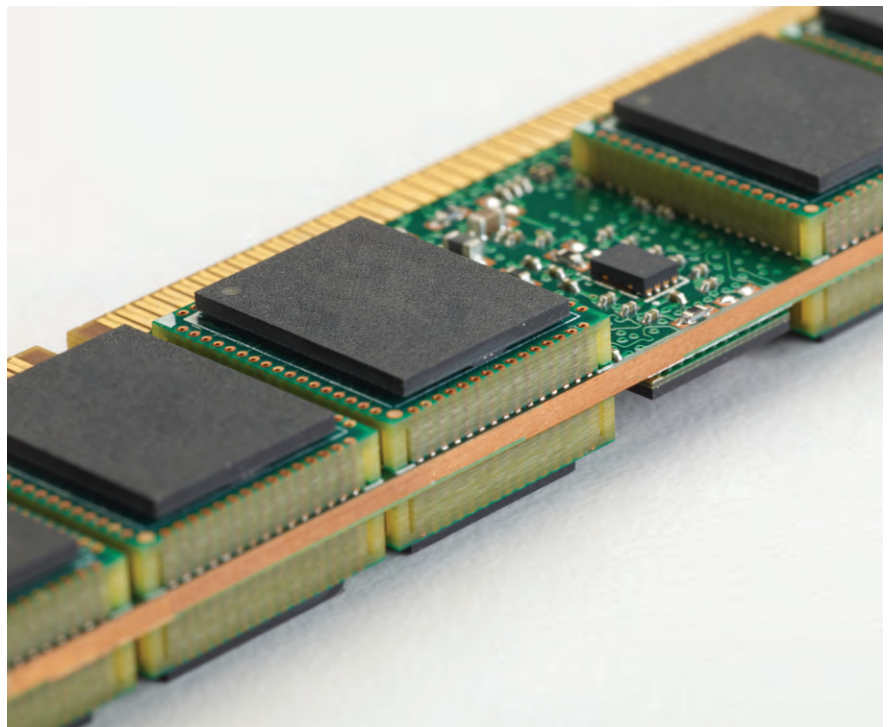
Fault Tolerant

Viking breadth of DRAM form factors

	DDR3	DDR2	ArxCis
LRDIMM	•		•
RDIMM	•	•	•
UDIMM	•	•	
MiniRDIMM	•	•	
MiniUDIMM	•	•	
VLP MiniRDIMM	•	•	
VLP MiniUDIMM	•	•	
VLP RDIMM	•	•	•
VLP UDIMM	•	•	
SODIMM	•	•	
SORDIMM	•	•	
SOUDIMM	•		

## BGA Stacking Technology

BGA Stacking DRAM – Optimum solutions for OEM's requiring the benefits of high density in a very low profile form factor. Built with Viking Technology's patent-pending BGA stacking technology, this DRAM has long term reliability in demanding environment and superior thermal performance.



Over two decades of development, support, and serviceability with products designed and manufactured in the USA at an AS9100-certified DoD trusted facility. Viking Modular embedded and military grade storage solutions are DoD compliance tested, security ensured, and SWaP(P) optimized specifically for the rigorous demands of military environments.

## WHY VIKING TECHNOLOGY

- AS9100, TL 9000 and ISO 14001 Certified
- USA based R&D, Development and Manufacturing
- Advanced Packaging Expertise
- DoD and Aerospace specified test capabilities
  - RTCA
  - RTCA DO-264
  - EUROCAEDO160
  - Extended Thermal Test Burn In
- Export compliance to ITAR/EAR/ITC
- C-TPAT global supply chain security
- Obsolescence mitigation
- Locked BOM under customer PCN control
- Localized Field Application Engineering for complete pre- and post-sale technical support



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