

TANGERINE series – MILITARY-Enterprise data storage

PERFORMANCE. CAPACITY. COST EFFICIENCY

MEMKOR TANGERINE SSD FAMILY

TANGERINE series SSDs and data storage solutions deliver high performance, high capacity, and high write endurance, without sacrificing resilience and data integrity. With robust design and expansive capacity, our TANGERINE-series solutions ensure you have the storage capacity you need at a cost-efficient price point.

Data protection options include AES 256 Encryption, Secure Erase (SE), and/or Write Protect (WP) functions. Encryption ensures data is unintelligible without the encryption key. SE ensures security parameters and data are completely and irreversibly wiped, preventing unauthorized access or recovery attempts by adversaries. WP option ensures data integrity and prevents malicious or accidental data alteration.

TANGERINE-series offerings can be optimized for Client operations (default) or Enterprise class operations to maximize performance and reduce latencies.

VALUES

- Reliability in industrial operating environments
- Security to protect sensitive data and ensure compliance
- Performance enabling rapid access to mission-critical information and real-time data processing
- Longevity and endurance for extended lifecycle for write-intensive applications
- MEMKOR Technical support
- Lower power consumption, reducing dissipated heat
- HW triggered Secure Erase | Write Protect
- Sudden Power Loss Safeguards
- End-to-end Data Protection
- End-to-end operation monitoring and recording
- Designed and built for reliability and longevity
- Locked BOM
- Custom firmware and features available
- 1 year/TBW limited warranty

APPLICATIONS

- Surveillance and Reconnaissance
- High speed data recording | Moving Map
- Command and Control Centers
- Cybersecurity Applications, Data-At-Rest
- Enterprise-like Military applications
- Secure Laptops



KEY FEATURES

• HIGH PERFORMANCE:

- Up to PCIe Gen4x4 data transfer speeds
- Up to 7,200MB/s throughput

• HIGH CAPACITY:

- Up to 2TB in M.2 2242
- Up to 8TB in M.2 2280 and FRED
- Up to 8TB in E1.s
- Up to 16TB in 2.5"
- Up to 32TB in 3U VPX

• HIGH ENDURANCE:

- Up to 50K PEC for longer SSD lifespan

• COST-EFFICIENT:

- Cutting-edge Industrial-grade solutions at a fraction of the cost

• SECURITY / DATA PROTECTION:

- AES 256 / TCG OPAL
- Hardware Secure Erase
- Hardware Write Protect

• LOCKED-BOM

- Locked Bill-of-Materials available



ABOUT TANGERINE SERIES

MEMKOR's TANGERINE series SSDs seamlessly integrate advanced security and ruggedization strategies into their design. Engineered for resilience, TANGERINE SSDs excel in write-intensive applications, where performance, capacity, and high endurance are required. The TANGERINE series offers versatile deployment options – from standard M.2 and 2.5", to proprietary fixed or removable storage solutions. MEMKOR TANGERINE SSD stands as the epitome of reliability, versatility, and security, redefining military-grade storage solutions with its cutting-edge design and proven performance.

MEMKOR—PART OF YOUR PROJECT

- We will support you throughout the design and product lifecycle
- We offer Locked BOM Management
- We offer Obsolescence Management

MEMKOR TANGERINE SERIES SSD SPECIFICATION

Form Factors	<ul style="list-style-type: none">• M.2 2230 2242 2280 22110• E1.s• 2.5" U.2• 3U VPX XMC• FRED• mSATA• 1.8"
Supported Interfaces	<ul style="list-style-type: none">• PCIe Gen4 x4 Gen3 x4• SATA III (backward compatible for legacy systems)
Data Security	<ul style="list-style-type: none">• Hardware Encryption AES 256 TCG OPAL
Maximum Capacity	<ul style="list-style-type: none">• Up to 2TB M.2 2242• Up to 8TB M.2 2280 and FRED• Up to 16TB 2.5"/U.2• Up to 32TB 3U VPX
Maximum Data Throughput	<ul style="list-style-type: none">• Up to 7,200 MB/s read Up to 6,800 MB/s write
Operating Temperature Range	<ul style="list-style-type: none">• I-Temp: -40°C to 85°C C-temp: 0°C to 70°C
Storage Temperature Range	<ul style="list-style-type: none">• -40°C to 85°C
Vibration/Shock	<ul style="list-style-type: none">• 20G 1500G half sine wave 1500G half sine wave 0.5ms
ECC	<ul style="list-style-type: none">• LDPC
Data Reliability	<ul style="list-style-type: none">• Uncorrectable bit error rate (UBER): less than 10^{-16}
Endurance	<ul style="list-style-type: none">• Ask MEMKOR. Up to 50K PEC Write Endurance NAND
Power	<ul style="list-style-type: none">• Ask MEMKOR (depends on Form Factor, Interface, Capacity)
Component Reliability	<ul style="list-style-type: none">• MTBF 2,000,000 hours
Health Monitoring	<ul style="list-style-type: none">• S.M.A.R.T. system health reporting• End-to-end system performance monitoring and active management
Warranty	<ul style="list-style-type: none">• 1-year limited warranty

DISCLAIMER: MEMKOR, Inc. reserves the right to change products, specifications and information without notice.

MEMKOR® is an American engineering company dedicated to providing flash solid state storage solutions for Defense applications. We create secure, reliable, robust, and innovative solutions with rich feature sets, tailored, as required, to meet your technology investment objectives. We are dedicated to delivering on our promises. We simply believe that your satisfaction enables the continuous success of our company.



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ISO 9001:2015 Certified

