MEMKOR

GUNMETAL XMC series - MILITARY-grade XMC SSD

PERFORMANCE. CAPACITY. COST EFFICIENCY

MEMKOR GUNMETAL XMC SSD FAMILY

GUNMETAL XMC 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 GUNMETAL XMC-series solutions allow customers to maximize their VPX deployments by optimizing the use of every VPX slot.

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.
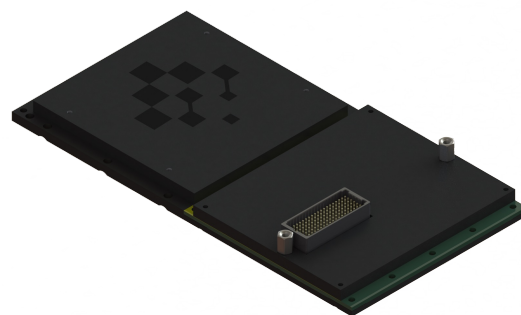
GUNMETAL-series are built to military-grade standards. MEMKOR XMC ensures mission-critical data is secure and reliable, while providing flexible, space-efficient storage solutions for modern embedded systems.

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
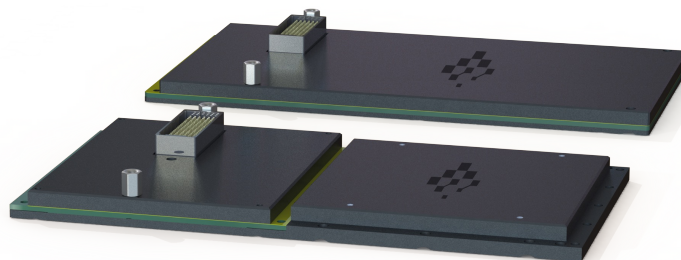- 1 year/TBW limited warranty

APPLICATIONS

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

KEY FEATURES

- **HIGH PERFORMANCE**:
  - Up to PCIe Gen4x4 data transfer speeds

- **HIGH CAPACITY**:
  - Up to 2.4TB in 60K PEC NAND (I-temp)
  - Up to 8TB in 3K PEC NAND (I-temp)
  - Up to 16TB in 3K PEC NAND (C-temp)

- **HIGH ENDURANCE**:
  - Up to 60K PEC for longer SSD lifespan

- **VITA 42.0 or VITA 61.0 Compliant**

- **VITA 20.0 Compliant**
  - Rugged XMC thermal performance

- **COST-EFFICIENT**:
  - Cutting-edge Industrial-grade solutions at a fraction of the cost

- **SECURITY / DATA PROTECTION**:
  - AES 256 + TCG OPAL
  - Optional Hardware Secure Erase
  - Optional Hardware Write Protect

- **LOCKED-BOM**
  - Locked Bill-of-Materials available

SECURE — RUGGED — RELIABLE
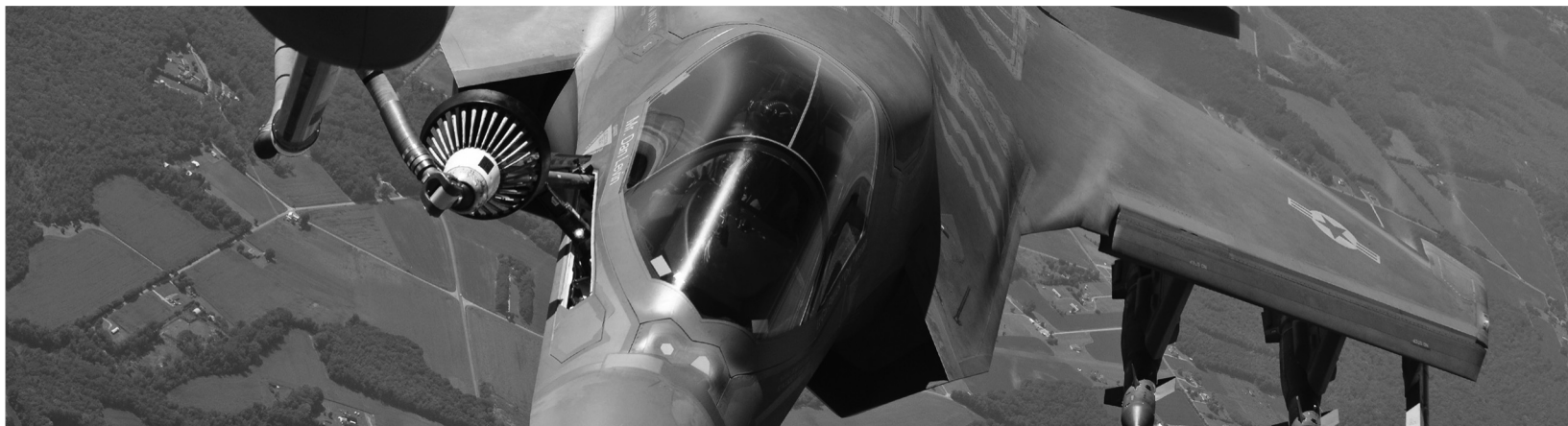
ABOUT GUNMETAL XMC SERIES

MEMKORs GUNMETAL XMC series SSDs seamlessly integrate advanced security and ruggedization strategies into their design. Engineered for resilience, GUNMETAL XMC SSDs excel in write-intensive applications, where performance, capacity, and high endurance are required. The GUNMETAL XMC series offers versatile deployment options – from standard M.2 and 2.5", to proprietary fixed or removable storage solutions. MEMKOR GUNMETAL XMC 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

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

MEMKOR GUNMETAL XMC SERIES SSD SPECIFICATION

Form Factors	• VITA 42.0 XMC • VITA 61.0 XMC • VITA 20 compliance • Custom
Supported Interfaces	• PCIe Gen4 x4 | Gen3 x4
Data Security	• Hardware Encryption AES 256 | TCG OPAL
Maximum Capacity	• Up to 2.4TB in 60K PEC • Up to 8TB in 3K PEC (I-temp) • Up to 16TB in 3K PEC (C-temp)
Maximum Data Throughput	• Up to 7,200 MB/s read | Up to 6,800 MB/s write
Operating Temperature Range	• I-Temp: -40°C to 85°C | C-temp: 0°C to 70°C
Storage Temperature Range	• -40°C to 85°C
Vibration/Shock	• Ask MEMKOR
ECC	• LDPC
Data Reliability	• Uncorrectable bit error rate (UBER): less than 10^{-16}
Endurance	• Ask MEMKOR. Up to 60K PEC Write Endurance NAND
Power	• Ask MEMKOR (depends on Form Factor, Interface, Capacity)
Component Reliability	• MTBF 2,000,000 hours
Health Monitoring	• S.M.A.R.T. system health reporting • End-to-end system performance monitoring and active management
Warranty	• 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.

MEMKOR, Inc., 10051 E Dynamite Blvd., Suite 120, Scottsdale, Arizona USA

Tel: 602.424.6246
Fax: 480.657.0298

https://www.memkor.com
email: sales@memkor.com

AS 9100 Certified
ISO 9001:2015 Certified

ANAB ACCREDITED
MANAGEMENT SYSTEMS
CERTIFICATION BODY

PRI Registrar
PERFORMANCE REVIEW INSTITUTE