

Ferri Embedded Storage

Enabling Intelligent Embedded Storage for the AI Era



SiliconMotion

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About Silicon Motion

Silicon Motion Technology Corporation (NasdaqGS: SIMO) is the global leader in developing NAND flash controllers for SSDs and other solid state storage devices. We have over 20 years of experience developing specialized processor ICs that manage NAND components and deliver market leading, high-performance storage solutions widely used in data centers, PCs, smartphones and commercial and industrial applications. We have one of the broadest portfolios of controller intellectual properties developed from our deep understanding of NAND characteristics, which enables us to design both unique, highly optimized configurable IC plus related firmware controller platforms and complete turnkey controller solutions. More NAND flash components, including current and up-coming generations of 3D flash produced by Kioxia, Micron, Samsung, SK Hynix, Solidigm, SanDisk and YMTC, are supported by Silicon Motion controllers than any other company. Our customers include NAND flash makers, module makers, hyperscalers and OEMs.

We are the world's leading merchant supplier of SSD controllers used in PCs and other client devices, enterprise and data center applications, and embedded eMMC/UFS controllers used in smartphones and IoT devices.

We also leverage our controller expertise to supply high-performance, customized, small single-chip form factor SSDs, eMMC and UFS for industrial, commercial and automotive applications.

We were founded in 1995 in San Jose, California and now operate from corporate offices in Hong Kong, Taiwan and the US.



Ferri Embedded Storage

Silicon Motion's Ferri Embedded Storage family — including FerriSSD[®], Ferri-eMMC[®], and Ferri-UFS[®] — is purpose-built for mission-critical storage applications, delivering high performance, exceptional reliability, and advanced security in a compact and easy-to-integrate form factor. As AI-driven applications continue to expand across sectors such as automotive, industrial automation, server, telecom, gaming, surveillance, and medical, Ferri solutions are optimized to meet the growing demand for high-speed data access, low power consumption, and enhanced endurance.



Offering a complete range of solutions — from single-chip SSDs and SSD modules to eMMC and UFS products — Ferri enables seamless integration across diverse embedded and automotive platforms. With proven, scalable, and production-ready setups, Ferri ensures ultra-low DPPM quality screening and long product life cycles, reducing total cost of ownership while maximizing operational uptime.

Ferri products leverage Silicon Motion's proprietary technologies, including IntelligentSeries™, DefendMax™, and NANDXtend®, to deliver robust data integrity, strong security, and superior reliability even in the most demanding environments.

IntelligentSeries™ Technologies for Advanced Data Protection

Ferri Embedded Storage comes with a set of intelligent data protection mechanisms that meet the storage needs of different application systems and can be effectively activated in various environments where data loss may occur.



IntelligentLog™
Automotive/Server Smart
Telemetry with Active Warning



IntelligentGuard™
Data Encryption with
Authenticated Firmware Protection



IntelligentThermal™
HCTM / DCTM
(Thermal Management)



IntelligentFlush™
Power Flush to Improve Stable
Fast Write Performance



IntelligentImage™
Content Preload Service
for SMT Reflow



IntelligentZones™
Endurance Groups - Multi-
Namespace, etc.



IntelligentScan™
Proven Proactive Data
Preservation



IntelligentShield™
Protection against
Power Interrupt



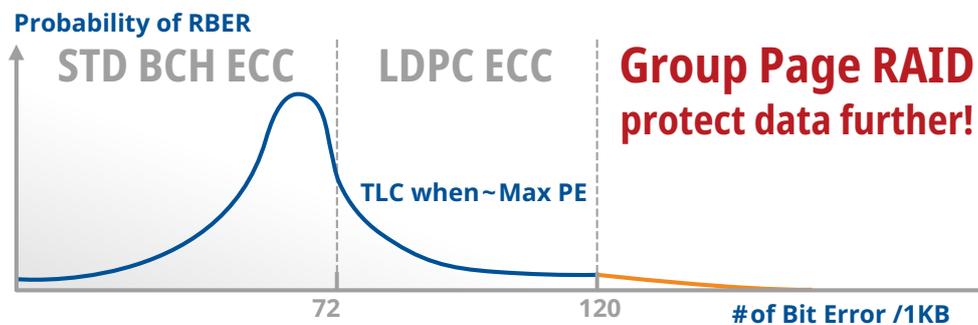
Learn More

DefendMax™ for Secure and Reliable Boot Drives in Rugged Applications

FerriSSD® with DefendMax™ delivers robust security and reliability for mission-critical and rugged applications. Featuring IntelligentGuard™ for firmware protection, IntelligentShield™ for power-loss data safety, and IntelligentThermal™ for temperature control, it ensures stable performance in harsh environments. Combined with NANDXtend® ECC and end-to-end data path protection, FerriSSD® provides superior data integrity and dependable operation.

NANDXtend® ECC Technology to Extended SSD Lifespan

NANDXtend® is Silicon Motion's advanced firmware for 3D NAND SSDs, combining LDPC and RAID correction for precise, high-speed error correction. Its three-level algorithm enhances P/E cycle performance, extending SSD lifespan and ensuring data integrity.



Applications



Automotive

Ferri Embedded Storage delivers high performance, reliability, and endurance for automotive applications, including ADAS, autonomous driving, smart cockpits, and V2X connectivity. With AEC-Q100 qualification, IntelligentSeries™ technologies, and customizable firmware, Ferri ensures fast data processing, secure storage, and long-term stability under demanding automotive environments.



Industrial Automation

Ferri Embedded Storage solutions power AI-driven industrial automation, supporting edge computing, machine vision, predictive maintenance, robotics, and AMRs. With high-speed data throughput, extended endurance, and customizable firmware, Ferri enables real-time analytics, autonomous navigation, and efficient factory operations in next-generation smart manufacturing.



Server

FerriSSD® is designed for server boot applications, offering fast boot-up, exceptional reliability, and superior data protection. With technologies like IntelligentScan™, DataRefresh™, and FastWrite™, FerriSSD® ensures error-free performance, safeguards against power loss, and extends drive endurance. Its compact BGA form factor fits easily into tight server spaces, while ultra-low DPPM screening and remote firmware update support make it a stable, efficient, and cost-effective boot drive solution.



POS / Kiosk / Digital Signage

Ferri Embedded Storage solutions deliver fast boot times, stable performance, and long-term reliability for POS systems, kiosks, and digital signage. With low power consumption, efficient data management, and field-programmable firmware, Ferri ensures uninterrupted operation and easy remote updates in 24/7 environments.



Telecom / Networking

Ferri provides high-speed, secure, and reliable storage for 5G base stations, routers, switches, and network appliances. Designed for low latency and long-term endurance, Ferri ensures efficient data caching, network optimization, and smooth packet processing in telecom and enterprise networking infrastructure.



Surveillance

Ferri Embedded Storage supports high-resolution video recording, analytics, and AI-powered surveillance with high performance, endurance, and security. Ideal for IP cameras, NVRs, and smart surveillance systems, Ferri enables real-time data capture, reliable storage, and long-term retention even in demanding environments.



Gaming

Ferri Embedded Storage delivers secure, reliable, and high-performance solutions for casino and gaming applications, including slot machines, table games, arcade systems, gaming control centers, hospitality kiosks, display screens, surveillance systems, and servers. With AES-256 encryption, firmware protection, and NANDXtend[®] ECC, Ferri ensures data security, 24/7 reliability, and long product lifecycles for modern gaming environments.



Medical

Ferri Embedded Storage delivers secure, reliable, and high-performance solutions for medical devices such as imaging systems, patient monitors, diagnostic equipment, and portable healthcare devices. With AES-256 encryption, firmware protection, and NANDXtend[®] ECC, Ferri ensures data security, stability, and long-term reliability in mission-critical healthcare applications.

Ferri-SSD[®] Single-Chip SSD



As AI transforms industries such as AIoT, smart cities, smart healthcare, smart retail, industrial automation, and automotive, the demand for high-performance, low-power, and reliable BGA SSDs has become critical. FerriSSD[®], powered by Silicon Motion's IntelligentSeries™ technologies, provides a robust storage solution designed for mission-critical AI applications, delivering enhanced data integrity, endurance, and security in even the most demanding environments.

Specifically engineered for industrial and automotive use, FerriSSD[®] supports PCIe Gen 4 x4 and integrates high-density 3D NAND into a compact 16mm x 20mm BGA package. It offers up to 1TB of storage, with read speeds exceeding 6GB/s and write speeds over 650 MB/s, ensuring reliable, high-performance data processing. These capabilities make FerriSSD[®] ideal for AI applications where performance, reliability, and security are essential.

With extended temperature support and flexible storage capacities, FerriSSD[®] is optimized for a wide range of applications. Its easy integration accelerates deployment, while its compact design, combining proven controller technology, NAND flash, and passive components, simplifies system design and reduces time-to-market, while addressing NAND migration challenges.

FerriSSD[®] also delivers enterprise-grade data integrity and reliability through Silicon Motion's proprietary NANDXtend[®] ECC technology and end-to-end data protection. It supports secure

remote firmware updates to ensure continuous system security, while its built-in SR-IOV capability provides greater flexibility and scalability, maintaining robust security across applications.

Features

Dual ARM® Cortex® R8 CPU

Digitally signed firmware with eFuse for enhanced security (option)

Data Reliability

- Performance-optimized LDPC engine provides maximum error correction capability
- End-to-end data path protection with CRC parity
- RAID engine provides multi-page protection for NAND flash data

Data Integrity and Security

- Built-in AES-128/256 Encryption
- TCG Opal v2.01 compliant
- Built-in hardware SHA384 and True Random Number Generator (TRNG)

Robust Data Protection

- Advanced system level protection against unstable power supply
- StaticDataRefresh™ and EarlyRetirement™ technologies ensure data integrity and prevent read disturbance
- PowerShield™ and DataPhoenix™ technologies support power-down data protection and recovery

Advanced Global Wear Leveling

- Fully utilizes each cell to even program/erase count across management units/die(s)
- Maximizes product lifespan with minimal wear leveling and write amplification overhead

SSD Status Monitoring

- Supports SMART/Telemetry of Get Log Page command to monitor SSD Status
- Supports proprietary FerriSSD® IntelligentLog™ for efficient event tracing

Power and Thermal Management

- Supports Host Controlled Thermal Management (HCTM) to configure thermal throttling temperatures
- Supports Device Self-Thermal Management
- Supports different power states (PS0, PS1, PS2, PS3, PS4)

Ferri-UFS®

Industrial / Automotive UFS Memory



As AI rapidly expands into sectors such as automotive, smart healthcare, smart cities, industrial automation, smart retail, and AIoT, the demand for high-performance, energy-efficient, and reliable storage solutions has become more critical than ever. AI-powered applications in these industries require fast data access and processing to support real-time decision-making and multitasking, making UFS technology essential for these advanced systems.

Ferri-UFS®, powered by Silicon Motion's IntelligentSeries™ technologies, meets these stringent requirements by delivering exceptional performance, data integrity, endurance, and security, even in the most challenging environments.

Designed for high-performance data throughput, superior power efficiency, and seamless integration, Ferri-UFS® incorporates cutting-edge NAND management and supports UFS 3.1 advanced features such as HS-Gear4 x 2-lane mode and command queuing, enabling fast data processing and multitasking, which are essential for AI-driven applications.

With extended temperature tolerance and multiple storage capacities, Ferri-UFS® is optimized for a wide range of applications, including automotive, industrial systems, embedded devices,

and portable solutions. Its streamlined integration process ensures quick deployment across sectors, making Ferri-UFS® the ideal choice for high-performance, AI-driven embedded systems.

Ferri-UFS® is widely utilized in automotive applications, including ADAS/autonomous, IVI/smart cockpit, and V2X systems, and adheres to stringent automotive standards such as AEC-Q100 Grade 3 certification, IATF 16949 certification for supplier chain compliance, and Automotive Service Packaging (ASP). With low DPPM rates and an extended product lifecycle, Ferri-UFS® is highly suitable for automotive environments. Its customizable firmware provides the flexibility to accommodate a wide range of specific use cases.

Features

High-Efficiency Error Correction

- Advanced Hardware LDPC (ECC) Engine
- StaticDataRefresh™ and EarlyRetirement™ technologies ensure the data reliability

Power Efficiency

- Dynamic power management technology enables multiple power-saving modes

Advanced Global Wear Leveling to Enhance Reliability

- Even distribution of program / erase cycles across all NAND flash chips
- Maximizes the lifespan with low Write Amplification Index (WAI)

Robust Data Protection

- Multiple user data security zones
- PowerShield and DataPhoenix technologies prevent data corruption in case of sudden power lost

Automotive Processes and Certifications

- AEC-Q100 compliance
- IATF 16949 certification for supplier chain compliance
- Automotive Service Packaging (ASP)

Ferri-eMMC[®]

Industrial / Automotive eMMC Memory



As AI continues to expand across industries such as automotive, smart healthcare, smart cities, smart retail, industrial automation, and AIoT, the demand for reliable and ultra-low-power storage solutions like Ferri-eMMC[®] has grown significantly, especially in mobile and portable devices such as IVI systems, industrial handheld devices, industrial VR, and industrial wearables. Powered by Silicon Motion's proprietary IntelligentSeries™ technologies, Ferri-eMMC[®] is designed to meet the growing needs of AI-driven applications, offering advanced features including data integrity, endurance, power efficiency, and security, making it a dependable choice for critical AI applications in challenging environments.

Compared to UFS, eMMC consumes significantly less power. UFS operates at 400mA (UFS 2.2) to 800mA (UFS 3.1), while eMMC operates at a much lower range of 70-100mA. Additionally, many legacy CPUs do not support UFS and rely solely on eMMC, making eMMC the preferred option for such systems. eMMC also provides a higher cost-performance ratio, making it an ideal choice for entry-level embedded products.

Ferri-eMMC[®], fully compliant with JEDEC eMMC 5.1 standards, is built for a wide range of embedded applications. It is available in 100-ball and 153-ball BGA packages, offering easy integration and cost-effective manufacturing. Leveraging proven controller technology and high-quality NAND components, Ferri-eMMC[®] ensures reliable data storage for essential

systems. Advanced NAND management features, including error correction, bad block management, and health monitoring, ensure long-term durability and reliability.

With support for extended temperatures, capacities up to 256GB, ultra-low power consumption, and exceptional reliability, Ferri-eMMC® is optimized for use in demanding environments. It provides a cost-effective, low-power storage solution for AI, industrial automation, and automotive applications where reliability, durability, and energy efficiency are critical.

Ferri-eMMC® is widely used in In-Vehicle Infotainment (IVI) systems and meets stringent automotive standards such as AEC-Q100 Grade 3 certification, IATF 16949 certification for supplier chain compliance, and Automotive Service Packaging (ASP). With low DPPM rates and a long product lifecycle, Ferri-eMMC® is well-suited for automotive applications. Its customizable firmware also provides flexibility for a wide range of use cases.

Features

High-Efficiency Error Correction

- Advanced Hardware LDPC (ECC) Engine
- StaticDataRefresh™ and EarlyRetirement™ technologies ensure the data reliability

Power Efficiency

- Dynamic power management technology enables multiple power-saving modes

Advanced Global Wear Leveling to Enhance Reliability

- Even distribution of program / erase cycles across all NAND flash chips
- Maximizes the lifespan with low Write Amplification Index (WAI)

Robust Data Protection

- Multiple user data security zones
- PowerShield and DataPhoenix technologies prevent data corruption in case of sudden power lost

Automotive Processes and Certifications

- AEC-Q100 compliance
- IATF 16949 certification for supplier chain compliance
- Automotive Service Packaging (ASP)

Selection Guide

FerriSSD

PCIe Gen4 x2/4 NVMe 2.0

Single-Chip SSD

| Product | Capacity | User Density | NAND | Temp. Range | Form Factor | Note |
|---------------|----------|--------------|---------------|-----------------------|--------------|---------------------------------|
| SM681GXD C8VP | 128GB | 120GB | V8 3D TLC | c-temp: 0°C to 70°C | 16x20 mm BGA | Single Chip BGA SSD / DRAM-less |
| SM681GXE C8VP | 256GB | 240GB | V8 3D TLC | c-temp: 0°C to 70°C | 16x20 mm BGA | Single Chip BGA SSD / DRAM-less |
| SM681GXF C8VP | 512GB | 480GB | V8 3D TLC | c-temp: 0°C to 70°C | 16x20 mm BGA | Single Chip BGA SSD / DRAM-less |
| SM681GXG C8VP | 1024GB | 960GB | V8 3D TLC | c-temp: 0°C to 70°C | 16x20 mm BGA | Single Chip BGA SSD / DRAM-less |
| SM681GED C8VP | 128GB | 120GB | V8 3D TLC | i-temp: -40°C to 85°C | 16x20 mm BGA | Single Chip BGA SSD / DRAM-less |
| SM681GEE C8VP | 256GB | 240GB | V8 3D TLC | i-temp: -40°C to 85°C | 16x20 mm BGA | Single Chip BGA SSD / DRAM-less |
| SM681GEF C8VP | 512GB | 480GB | V8 3D TLC | i-temp: -40°C to 85°C | 16x20 mm BGA | Single Chip BGA SSD / DRAM-less |
| SM681GEG C8VP | 1024GB | 960GB | V8 3D TLC | i-temp: -40°C to 85°C | 16x20 mm BGA | Single Chip BGA SSD / DRAM-less |
| SM681GXD C8VO | 128GB | 40GB | V8 3D SLCmode | c-temp: 0°C to 70°C | 16x20 mm BGA | Single Chip BGA SSD / DRAM-less |
| SM681GXE C8VO | 256GB | 80GB | V8 3D SLCmode | c-temp: 0°C to 70°C | 16x20 mm BGA | Single Chip BGA SSD / DRAM-less |
| SM681GXF C8VO | 512GB | 160GB | V8 3D SLCmode | c-temp: 0°C to 70°C | 16x20 mm BGA | Single Chip BGA SSD / DRAM-less |
| SM681GXG C8VO | 1024GB | 320GB | V8 3D SLCmode | c-temp: 0°C to 70°C | 16x20 mm BGA | Single Chip BGA SSD / DRAM-less |
| SM681GED C8VO | 128GB | 40GB | V8 3D SLCmode | i-temp: -40°C to 85°C | 16x20 mm BGA | Single Chip BGA SSD / DRAM-less |
| SM681GEE C8VO | 256GB | 80GB | V8 3D SLCmode | i-temp: -40°C to 85°C | 16x20 mm BGA | Single Chip BGA SSD / DRAM-less |
| SM681GEF C8VO | 512GB | 160GB | V8 3D SLCmode | i-temp: -40°C to 85°C | 16x20 mm BGA | Single Chip BGA SSD / DRAM-less |
| SM681GEG C8VO | 1024GB | 320GB | V8 3D SLCmode | i-temp: -40°C to 85°C | 16x20 mm BGA | Single Chip BGA SSD / DRAM-less |

Module

| Product | Capacity | User Density | NAND | Temp. Range | Form Factor | Note |
|---------------|----------|--------------|---------------|-----------------------|-----------------------|---|
| MD681GXDBC82P | 128GB | 120GB | V8 3D TLC | c-temp: 0°C to 70°C | M.2 22x42 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| MD681GXEBC82P | 256GB | 240GB | V8 3D TLC | c-temp: 0°C to 70°C | M.2 22x42 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| MD681GXFBC82P | 512GB | 480GB | V8 3D TLC | c-temp: 0°C to 70°C | M.2 22x42 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| MD681GXGBC82P | 1024GB | 960GB | V8 3D TLC | c-temp: 0°C to 70°C | M.2 22x42 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| MD681GEDBC82P | 128GB | 120GB | V8 3D TLC | i-temp: -40°C to 85°C | M.2 22x42 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| MD681GEEBC82P | 256GB | 240GB | V8 3D TLC | i-temp: -40°C to 85°C | M.2 22x42 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| MD681GEFBC82P | 512GB | 480GB | V8 3D TLC | i-temp: -40°C to 85°C | M.2 22x42 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| MD681GEGBC82P | 1024GB | 960GB | V8 3D TLC | i-temp: -40°C to 85°C | M.2 22x42 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| MD681GXDBC82O | 128GB | 40GB | V8 3D SLCmode | c-temp: 0°C to 70°C | M.2 22x42 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| MD681GXEBC82O | 256GB | 80GB | V8 3D SLCmode | c-temp: 0°C to 70°C | M.2 22x42 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| MD681GXFBC82O | 512GB | 160GB | V8 3D SLCmode | c-temp: 0°C to 70°C | M.2 22x42 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| MD681GXGBC82O | 1024GB | 320GB | V8 3D SLCmode | c-temp: 0°C to 70°C | M.2 22x42 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| MD681GEDBC82O | 128GB | 40GB | V8 3D SLCmode | i-temp: -40°C to 85°C | M.2 22x42 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| MD681GEEBC82O | 256GB | 80GB | V8 3D SLCmode | i-temp: -40°C to 85°C | M.2 22x42 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| MD681GEFBC82O | 512GB | 160GB | V8 3D SLCmode | i-temp: -40°C to 85°C | M.2 22x42 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| MD681GEGBC82O | 1024GB | 320GB | V8 3D SLCmode | i-temp: -40°C to 85°C | M.2 22x42 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| ME681GXDBC82P | 128GB | 120GB | V8 3D TLC | c-temp: 0°C to 70°C | M.2 22x80 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| ME681GXEBC82P | 256GB | 240GB | V8 3D TLC | c-temp: 0°C to 70°C | M.2 22x80 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| ME681GXFBC82P | 512GB | 480GB | V8 3D TLC | c-temp: 0°C to 70°C | M.2 22x80 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| ME681GXGBC82P | 1024GB | 960GB | V8 3D TLC | c-temp: 0°C to 70°C | M.2 22x80 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| ME681GEDBC82P | 128GB | 120GB | V8 3D TLC | i-temp: -40°C to 85°C | M.2 22x80 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| ME681GEEBC82P | 256GB | 240GB | V8 3D TLC | i-temp: -40°C to 85°C | M.2 22x80 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| ME681GEFBC82P | 512GB | 480GB | V8 3D TLC | i-temp: -40°C to 85°C | M.2 22x80 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| ME681GEGBC82P | 1024GB | 960GB | V8 3D TLC | i-temp: -40°C to 85°C | M.2 22x80 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| ME681GXDBC82O | 128GB | 40GB | V8 3D SLCmode | c-temp: 0°C to 70°C | M.2 22x80 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| ME681GXEBC82O | 256GB | 80GB | V8 3D SLCmode | c-temp: 0°C to 70°C | M.2 22x80 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| ME681GXFBC82O | 512GB | 160GB | V8 3D SLCmode | c-temp: 0°C to 70°C | M.2 22x80 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| ME681GXGBC82O | 1024GB | 320GB | V8 3D SLCmode | c-temp: 0°C to 70°C | M.2 22x80 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| ME681GEDBC82O | 128GB | 40GB | V8 3D SLCmode | i-temp: -40°C to 85°C | M.2 22x80 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| ME681GEEBC82O | 256GB | 80GB | V8 3D SLCmode | i-temp: -40°C to 85°C | M.2 22x80 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| ME681GEFBC82O | 512GB | 160GB | V8 3D SLCmode | i-temp: -40°C to 85°C | M.2 22x80 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| ME681GEGBC82O | 1024GB | 320GB | V8 3D SLCmode | i-temp: -40°C to 85°C | M.2 22x80 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |

FerriSSD

PCIe Gen3 x2 NVMe 1.3

Single-Chip SSD

| Product | Capacity | User Density | NAND | Temp. Range | Form Factor | Note |
|---------------|----------|--------------|------------------|-----------------------|--------------|---------------------------------|
| SM681GXC AGST | 64GB | 60GB | BiCS5 3D TLC | c-temp: 0°C to 70°C | 16x20 mm BGA | Single Chip BGA SSD / DRAM-less |
| SM681GXD AGST | 128GB | 120GB | BiCS5 3D TLC | c-temp: 0°C to 70°C | 16x20 mm BGA | Single Chip BGA SSD / DRAM-less |
| SM681GXE AGST | 256GB | 240GB | BiCS5 3D TLC | c-temp: 0°C to 70°C | 16x20 mm BGA | Single Chip BGA SSD / DRAM-less |
| SM681GXF AGST | 512GB | 480GB | BiCS5 3D TLC | c-temp: 0°C to 70°C | 16x20 mm BGA | Single Chip BGA SSD / DRAM-less |
| SM681GEC AGST | 64GB | 60GB | BiCS5 3D TLC | i-temp: -40°C to 85°C | 16x20 mm BGA | Single Chip BGA SSD / DRAM-less |
| SM681GED AGST | 128GB | 120GB | BiCS5 3D TLC | i-temp: -40°C to 85°C | 16x20 mm BGA | Single Chip BGA SSD / DRAM-less |
| SM681GEE AGST | 256GB | 240GB | BiCS5 3D TLC | i-temp: -40°C to 85°C | 16x20 mm BGA | Single Chip BGA SSD / DRAM-less |
| SM681GEF AGST | 512GB | 480GB | BiCS5 3D TLC | i-temp: -40°C to 85°C | 16x20 mm BGA | Single Chip BGA SSD / DRAM-less |
| SM681GXC AGSS | 64GB | 20GB | BiCS5 3D SLCmode | c-temp: 0°C to 70°C | 16x20 mm BGA | Single Chip BGA SSD / DRAM-less |
| SM681GXD AGSS | 128GB | 40GB | BiCS5 3D SLCmode | c-temp: 0°C to 70°C | 16x20 mm BGA | Single Chip BGA SSD / DRAM-less |
| SM681GXE AGSS | 256GB | 80GB | BiCS5 3D SLCmode | c-temp: 0°C to 70°C | 16x20 mm BGA | Single Chip BGA SSD / DRAM-less |
| SM681GXF AGSS | 512GB | 160GB | BiCS5 3D SLCmode | c-temp: 0°C to 70°C | 16x20 mm BGA | Single Chip BGA SSD / DRAM-less |
| SM681GEC AGSS | 64GB | 20GB | BiCS5 3D SLCmode | i-temp: -40°C to 85°C | 16x20 mm BGA | Single Chip BGA SSD / DRAM-less |
| SM681GED AGST | 128GB | 40GB | BiCS5 3D SLCmode | i-temp: -40°C to 85°C | 16x20 mm BGA | Single Chip BGA SSD / DRAM-less |
| SM681GEE AGSS | 256GB | 80GB | BiCS5 3D SLCmode | i-temp: -40°C to 85°C | 16x20 mm BGA | Single Chip BGA SSD / DRAM-less |
| SM681GEF AGSS | 512GB | 160GB | BiCS5 3D SLCmode | i-temp: -40°C to 85°C | 16x20 mm BGA | Single Chip BGA SSD / DRAM-less |

Module

| Product | Capacity | User Density | NAND | Temp. Range | Form Factor | Note |
|---------------|----------|--------------|------------------|-----------------------|-----------------------|---|
| MD681GXCKAG3T | 64GB | 60GB | BiCS5 3D TLC | c-temp: 0°C to 70°C | M.2 22x42 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| MD681GXDKAG3T | 128GB | 120GB | BiCS5 3D TLC | c-temp: 0°C to 70°C | M.2 22x42 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| MD681GXEKAG3T | 256GB | 240GB | BiCS5 3D TLC | c-temp: 0°C to 70°C | M.2 22x42 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| MD681GXFKAG3T | 512GB | 480GB | BiCS5 3D TLC | c-temp: 0°C to 70°C | M.2 22x42 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| MD681GECKAG3T | 64GB | 60GB | BiCS5 3D TLC | i-temp: -40°C to 85°C | M.2 22x42 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| MD681GEDKAG3T | 128GB | 120GB | BiCS5 3D TLC | i-temp: -40°C to 85°C | M.2 22x42 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| MD681GEEKAG3T | 256GB | 240GB | BiCS5 3D TLC | i-temp: -40°C to 85°C | M.2 22x42 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| MD681GEFKAG3T | 512GB | 480GB | BiCS5 3D TLC | i-temp: -40°C to 85°C | M.2 22x42 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| MD681GXCKAG3S | 64GB | 20GB | BiCS5 3D SLCmode | c-temp: 0°C to 70°C | M.2 22x42 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| MD681GXDKAG3S | 128GB | 40GB | BiCS5 3D SLCmode | c-temp: 0°C to 70°C | M.2 22x42 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| MD681GXEKAG3S | 256GB | 80GB | BiCS5 3D SLCmode | c-temp: 0°C to 70°C | M.2 22x42 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| MD681GXFKAG3S | 512GB | 160GB | BiCS5 3D SLCmode | c-temp: 0°C to 70°C | M.2 22x42 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| MD681GECKAG3S | 64GB | 20GB | BiCS5 3D SLCmode | i-temp: -40°C to 85°C | M.2 22x42 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| MD681GEDKAG3S | 128GB | 40GB | BiCS5 3D SLCmode | i-temp: -40°C to 85°C | M.2 22x42 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| MD681GEEKAG3S | 256GB | 80GB | BiCS5 3D SLCmode | i-temp: -40°C to 85°C | M.2 22x42 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| MD681GEFKAG3S | 512GB | 160GB | BiCS5 3D SLCmode | i-temp: -40°C to 85°C | M.2 22x42 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| ME681GXCKAG3T | 64GB | 60GB | BiCS5 3D TLC | c-temp: 0°C to 70°C | M.2 22x80 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| ME681GXDKAG3T | 128GB | 120GB | BiCS5 3D TLC | c-temp: 0°C to 70°C | M.2 22x80 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| ME681GXEKAG3T | 256GB | 240GB | BiCS5 3D TLC | c-temp: 0°C to 70°C | M.2 22x80 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| ME681GXFKAG3T | 512GB | 480GB | BiCS5 3D TLC | c-temp: 0°C to 70°C | M.2 22x80 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| ME681GECKAG3T | 64GB | 60GB | BiCS5 3D TLC | i-temp: -40°C to 85°C | M.2 22x80 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| ME681GEDKAG3T | 128GB | 120GB | BiCS5 3D TLC | i-temp: -40°C to 85°C | M.2 22x80 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| ME681GEEKAG3T | 256GB | 240GB | BiCS5 3D TLC | i-temp: -40°C to 85°C | M.2 22x80 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| ME681GEFKAG3T | 512GB | 480GB | BiCS5 3D TLC | i-temp: -40°C to 85°C | M.2 22x80 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| ME681GXCKAG3S | 64GB | 20GB | BiCS5 3D SLCmode | c-temp: 0°C to 70°C | M.2 22x80 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| ME681GXDKAG3S | 128GB | 40GB | BiCS5 3D SLCmode | c-temp: 0°C to 70°C | M.2 22x80 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| ME681GXEKAG3S | 256GB | 80GB | BiCS5 3D SLCmode | c-temp: 0°C to 70°C | M.2 22x80 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| ME681GXFKAG3S | 512GB | 160GB | BiCS5 3D SLCmode | c-temp: 0°C to 70°C | M.2 22x80 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| ME681GECKAG3S | 64GB | 20GB | BiCS5 3D SLCmode | i-temp: -40°C to 85°C | M.2 22x80 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| ME681GEDKAG3S | 128GB | 40GB | BiCS5 3D SLCmode | i-temp: -40°C to 85°C | M.2 22x80 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| ME681GEEKAG3S | 256GB | 80GB | BiCS5 3D SLCmode | i-temp: -40°C to 85°C | M.2 22x80 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |
| ME681GEFKAG3S | 512GB | 160GB | BiCS5 3D SLCmode | i-temp: -40°C to 85°C | M.2 22x80 mm w/ M-key | Single Chip BGA SSD on module / DRAM-less |

FerriSSD SATA 6Gb/s

Single-Chip SSD

| Product | Capacity | User Density | NAND | Temp. Range | Form Factor | Note |
|---------------|----------|--------------|------------------|-----------------------|--------------|-------------------------------|
| SM619GXC DGST | 64GB | 64GB | BiCS5 3D TLC | c-temp: 0°C to 70°C | 16x20 mm BGA | Single Chip BGA SSD / w/ DRAM |
| SM619GXD DGST | 128GB | 128GB | BiCS5 3D TLC | c-temp: 0°C to 70°C | 16x20 mm BGA | Single Chip BGA SSD / w/ DRAM |
| SM619GXE EGST | 256GB | 240GB | BiCS5 3D TLC | c-temp: 0°C to 70°C | 16x20 mm BGA | Single Chip BGA SSD / w/ DRAM |
| SM619GXF EGST | 512GB | 480GB | BiCS5 3D TLC | c-temp: 0°C to 70°C | 16x20 mm BGA | Single Chip BGA SSD / w/ DRAM |
| SM619GEC DGST | 64GB | 64GB | BiCS5 3D TLC | i-temp: -40°C to 85°C | 16x20 mm BGA | Single Chip BGA SSD / w/ DRAM |
| SM619GED DGST | 128GB | 128GB | BiCS5 3D TLC | i-temp: -40°C to 85°C | 16x20 mm BGA | Single Chip BGA SSD / w/ DRAM |
| SM619GEE EGST | 256GB | 240GB | BiCS5 3D TLC | i-temp: -40°C to 85°C | 16x20 mm BGA | Single Chip BGA SSD / w/ DRAM |
| SM619GEF EGST | 512GB | 480GB | BiCS5 3D TLC | i-temp: -40°C to 85°C | 16x20 mm BGA | Single Chip BGA SSD / w/ DRAM |
| SM619GXC DGSS | 64GB | 20GB | BiCS5 3D SLCmode | c-temp: 0°C to 70°C | 16x20 mm BGA | Single Chip BGA SSD / w/ DRAM |
| SM619GXD DGSS | 128GB | 40GB | BiCS5 3D SLCmode | c-temp: 0°C to 70°C | 16x20 mm BGA | Single Chip BGA SSD / w/ DRAM |
| SM619GXE EGSS | 256GB | 80GB | BiCS5 3D SLCmode | c-temp: 0°C to 70°C | 16x20 mm BGA | Single Chip BGA SSD / w/ DRAM |
| SM619GXF EGSS | 512GB | 160GB | BiCS5 3D SLCmode | c-temp: 0°C to 70°C | 16x20 mm BGA | Single Chip BGA SSD / w/ DRAM |
| SM619GEC DGSS | 64GB | 20GB | BiCS5 3D SLCmode | i-temp: -40°C to 85°C | 16x20 mm BGA | Single Chip BGA SSD / w/ DRAM |
| SM619GED DGSS | 128GB | 40GB | BiCS5 3D SLCmode | i-temp: -40°C to 85°C | 16x20 mm BGA | Single Chip BGA SSD / w/ DRAM |
| SM619GEE EGSS | 256GB | 80GB | BiCS5 3D SLCmode | i-temp: -40°C to 85°C | 16x20 mm BGA | Single Chip BGA SSD / w/ DRAM |
| SM619GEF EGSS | 512GB | 160GB | BiCS5 3D SLCmode | i-temp: -40°C to 85°C | 16x20 mm BGA | Single Chip BGA SSD / w/ DRAM |

Module

| Product | Capacity | User Density | NAND | Temp. Range | Form Factor | Note |
|--------------|----------|--------------|--------------|---------------------|-------------------|---|
| ME619FXE0FA7 | 256GB | 240GB | BiCS5 3D TLC | c-temp: 0°C to 70°C | M.2 2280mm w/ PLP | Discrete controller + NAND DWPD=1 / w/DRAM |
| ME619DXFOFA7 | 512GB | 480GB | BiCS5 3D TLC | c-temp: 0°C to 70°C | M.2 2280mm w/ PLP | Discrete controller + NAND DWPD=1 / w/ DRAM |
| ME619DXG0FA7 | 1024GB | 960GB | BiCS5 3D TLC | c-temp: 0°C to 70°C | M.2 2280mm w/ PLP | Discrete controller + NAND DWPD=1 / w/DRAM |
| ME619DXH0FA7 | 2048GB | 1,920GB | BiCS5 3D TLC | c-temp: 0°C to 70°C | M.2 2280mm w/ PLP | Discrete controller + NAND DWPD=1 / w/ DRAM |
| MA619FXE0FA7 | 256GB | 240GB | BiCS5 3D TLC | c-temp: 0°C to 70°C | 2.5" 7mm w/ PLP | Discrete controller + NAND DWPD=1 / w/DRAM |
| MA619DXFOFA7 | 512GB | 480GB | BiCS5 3D TLC | c-temp: 0°C to 70°C | 2.5" 7mm w/ PLP | Discrete controller + NAND DWPD=1 / w/ DRAM |
| MA619DXG0FA7 | 1024GB | 960GB | BiCS5 3D TLC | c-temp: 0°C to 70°C | 2.5" 7mm w/ PLP | Discrete controller + NAND DWPD=1 / w/DRAM |
| MA619DXH0FA7 | 2048GB | 1920GB | BiCS5 3D TLC | c-temp: 0°C to 70°C | 2.5" 7mm w/ PLP | Discrete controller + NAND DWPD=1 / w/ DRAM |
| ME619HXE0FA7 | 256GB | 240GB | BiCS5 3D TLC | c-temp: 0°C to 70°C | M.2 2280mm w/ PLP | Discrete controller + NAND DWPD=3 / w/ DRAM |
| ME619HXFOFA7 | 512GB | 480GB | BiCS5 3D TLC | c-temp: 0°C to 70°C | M.2 2280mm w/ PLP | Discrete controller + NAND DWPD=3 / w/ DRAM |
| ME619HXG0FA7 | 1024GB | 960GB | BiCS5 3D TLC | c-temp: 0°C to 70°C | M.2 2280mm w/ PLP | Discrete controller + NAND DWPD=3 / w/ DRAM |
| MA619HXE0FA7 | 256GB | 240GB | BiCS5 3D TLC | c-temp: 0°C to 70°C | 2.5" 7mm w/ PLP | Discrete controller + NAND DWPD=3 / w/ DRAM |
| MA619HXFOFA7 | 512GB | 480GB | BiCS5 3D TLC | c-temp: 0°C to 70°C | 2.5" 7mm w/ PLP | Discrete controller + NAND DWPD=3 / w/ DRAM |
| MA619HXG0FA7 | 1024GB | 960GB | BiCS5 3D TLC | c-temp: 0°C to 70°C | 2.5" 7mm w/ PLP | Discrete controller + NAND DWPD=3 / w/ DRAM |
| ME619FXEPF87 | 256GB | 240GB | V8 3D TLC | c-temp: 0°C to 70°C | M.2 2280mm w/ PLP | Discrete controller + NAND DWPD=1 / w/DRAM |
| ME619DXFPF87 | 512GB | 480GB | V8 3D TLC | c-temp: 0°C to 70°C | M.2 2280mm w/ PLP | Discrete controller + NAND DWPD=1 / w/DRAM |
| ME619DXGPF87 | 1024GB | 960GB | V8 3D TLC | c-temp: 0°C to 70°C | M.2 2280mm w/ PLP | Discrete controller + NAND DWPD=1 / w/DRAM |
| MA619FXE0F87 | 256GB | 240GB | V8 3D TLC | c-temp: 0°C to 70°C | 2.5" 7mm w/ PLP | Discrete controller + NAND DWPD=1 / w/DRAM |
| MA619DXFOF87 | 512GB | 480GB | V8 3D TLC | c-temp: 0°C to 70°C | 2.5" 7mm w/ PLP | Discrete controller + NAND DWPD=1 / w/DRAM |
| MA619DXG0F87 | 1024GB | 960GB | V8 3D TLC | c-temp: 0°C to 70°C | 2.5" 7mm w/ PLP | Discrete controller + NAND DWPD=1 / w/DRAM |
| ME619HXEPF87 | 256GB | 240GB | V8 3D TLC | c-temp: 0°C to 70°C | M.2 2280mm w/ PLP | Discrete controller + NAND DWPD=3 / w/ DRAM |
| ME619HXFPF87 | 512GB | 480GB | V8 3D TLC | c-temp: 0°C to 70°C | M.2 2280mm w/ PLP | Discrete controller + NAND DWPD=3 / w/ DRAM |
| ME619HXGPF87 | 1024GB | 960GB | V8 3D TLC | c-temp: 0°C to 70°C | M.2 2280mm w/ PLP | Discrete controller + NAND DWPD=3 / w/ DRAM |
| MA619HXE0F87 | 256GB | 240GB | V8 3D TLC | c-temp: 0°C to 70°C | 2.5" 7mm w/ PLP | Discrete controller + NAND DWPD=3 / w/ DRAM |
| MA619HXFOF87 | 512GB | 480GB | V8 3D TLC | c-temp: 0°C to 70°C | 2.5" 7mm w/ PLP | Discrete controller + NAND DWPD=3 / w/ DRAM |
| MA619HXG0F87 | 1024GB | 960GB | V8 3D TLC | c-temp: 0°C to 70°C | 2.5" 7mm w/ PLP | Discrete controller + NAND DWPD=3 / w/ DRAM |

Ferri-UFS

UFS 3.1

| Product | Capacity | NAND | Form Factor | Temp. Range |
|--------------|----------|--------|--------------------|-----------------------------|
| SM671PXC BFS | 64GB | 3D TLC | 153b BGA 11.5x13mm | C-temp: -25°C to 85°C |
| SM671PXD BFS | 128GB | 3D TLC | 153b BGA 11.5x13mm | C-temp: -25°C to 85°C |
| SM671PXE BFS | 256GB | 3D TLC | 153b BGA 11.5x13mm | C-temp: -25°C to 85°C |
| SM671PXF BFS | 512GB | 3D TLC | 153b BGA 11.5x13mm | C-temp: -25°C to 85°C |
| SM671PEC BFS | 64GB | 3D TLC | 153b BGA 11.5x13mm | i-temp: -40°C to 85°C |
| SM671PED BFS | 128GB | 3D TLC | 153b BGA 11.5x13mm | i-temp: -40°C to 85°C |
| SM671PEE BFS | 256GB | 3D TLC | 153b BGA 11.5x13mm | i-temp: -40°C to 85°C |
| SM671PEF BFS | 512GB | 3D TLC | 153b BGA 11.5x13mm | i-temp: -40°C to 85°C |
| SM671PAC BFS | 64GB | 3D TLC | 153b BGA 11.5x13mm | Auto-grade3: -40°C to 85°C |
| SM671PAD BFS | 128GB | 3D TLC | 153b BGA 11.5x13mm | Auto-grade3: -40°C to 85°C |
| SM671PAE BFS | 256GB | 3D TLC | 153b BGA 11.5x13mm | Auto-grade3: -40°C to 85°C |
| SM671PAF BFS | 512GB | 3D TLC | 153b BGA 11.5x13mm | Auto-grade3: -40°C to 85°C |
| SM671PBC BFS | 64GB | 3D TLC | 153b BGA 11.5x13mm | Auto-grade2: -40°C to 105°C |
| SM671PBD BFS | 128GB | 3D TLC | 153b BGA 11.5x13mm | Auto-grade2: -40°C to 105°C |
| SM671PBE BFS | 256GB | 3D TLC | 153b BGA 11.5x13mm | Auto-grade2: -40°C to 105°C |
| SM671PBF BFS | 512GB | 3D TLC | 153b BGA 11.5x13mm | Auto-grade2: -40°C to 105°C |

UFS 2.2

| Product | Capacity | NAND | Form Factor | Temp. Range |
|--------------|----------|--------|--------------------|-----------------------------|
| SM671PXCLBFS | 64GB | 3D TLC | 153b BGA 11.5x13mm | C-temp: -25°C to 85°C |
| SM671PXDLBFS | 128GB | 3D TLC | 153b BGA 11.5x13mm | C-temp: -25°C to 85°C |
| SM671PXELBFS | 256GB | 3D TLC | 153b BGA 11.5x13mm | C-temp: -25°C to 85°C |
| SM671PXFLBFS | 512GB | 3D TLC | 153b BGA 11.5x13mm | C-temp: -25°C to 85°C |
| SM671PECLBFS | 64GB | 3D TLC | 153b BGA 11.5x13mm | i-temp: -40°C to 85°C |
| SM671PEDLBFS | 128GB | 3D TLC | 153b BGA 11.5x13mm | i-temp: -40°C to 85°C |
| SM671PEELBFS | 256GB | 3D TLC | 153b BGA 11.5x13mm | i-temp: -40°C to 85°C |
| SM671PEFLBFS | 512GB | 3D TLC | 153b BGA 11.5x13mm | i-temp: -40°C to 85°C |
| SM671PACLBFS | 64GB | 3D TLC | 153b BGA 11.5x13mm | Auto-grade3: -40°C to 85°C |
| SM671PADLBFS | 128GB | 3D TLC | 153b BGA 11.5x13mm | Auto-grade3: -40°C to 85°C |
| SM671PAELBFS | 256GB | 3D TLC | 153b BGA 11.5x13mm | Auto-grade3: -40°C to 85°C |
| SM671PAELBFS | 256GB | 3D TLC | 153b BGA 11.5x13mm | Auto-grade3: -40°C to 85°C |
| SM671PAFLBFS | 512GB | 3D TLC | 153b BGA 11.5x13mm | Auto-grade3: -40°C to 85°C |
| SM671PBCLBFS | 64GB | 3D TLC | 153b BGA 11.5x13mm | Auto-grade2: -40°C to 105°C |
| SM671PBDLBFS | 128GB | 3D TLC | 153b BGA 11.5x13mm | Auto-grade2: -40°C to 105°C |
| SM671PBELBFS | 256GB | 3D TLC | 153b BGA 11.5x13mm | Auto-grade2: -40°C to 105°C |
| SM671PBFLBFS | 512GB | 3D TLC | 153b BGA 11.5x13mm | Auto-grade2: -40°C to 105°C |

Ferri-eMMC

eMMC 5.1

| Product | Capacity | NAND | Form Factor | Temp. Range |
|--------------|----------|--------|--------------------|-----------------------------|
| SM662GX8 C4V | 8GB | 2D MLC | 100b BGA 14x18mm | C-temp: -25°C to 85°C |
| SM662GXA C4V | 16GB | 2D MLC | 100b BGA 14x18mm | C-temp: -25°C to 85°C |
| SM662GXB C6V | 32GB | 3D TLC | 100b BGA 14x18mm | C-temp: -25°C to 85°C |
| SM662GXC BFS | 64GB | 3D TLC | 100b BGA 14x18mm | C-temp: -25°C to 85°C |
| SM662GXD BFS | 128GB | 3D TLC | 100b BGA 14x18mm | C-temp: -25°C to 85°C |
| SM662GXE BFS | 256GB | 3D TLC | 100b BGA 14x18mm | C-temp: -25°C to 85°C |
| SM662GXF BFS | 512GB | 3D TLC | 100b BGA 14x18mm | C-temp: -25°C to 85°C |
| SM662GE8 C4V | 8GB | 2D MLC | 100b BGA 14x18mm | i-temp: -40°C to 85°C |
| SM662GEA C4V | 16GB | 2D MLC | 100b BGA 14x18mm | i-temp: -40°C to 85°C |
| SM662GEB C6V | 32GB | 3D TLC | 100b BGA 14x18mm | i-temp: -40°C to 85°C |
| SM662GEC BFS | 64GB | 3D TLC | 100b BGA 14x18mm | i-temp: -40°C to 85°C |
| SM662GED BFS | 128GB | 3D TLC | 100b BGA 14x18mm | i-temp: -40°C to 85°C |
| SM662GEE BFS | 256GB | 3D TLC | 100b BGA 14x18mm | i-temp: -40°C to 85°C |
| SM662GEF BFS | 512GB | 3D TLC | 100b BGA 14x18mm | i-temp: -40°C to 85°C |
| SM662GA8 C4V | 8GB | 2D MLC | 100b BGA 14x18mm | Auto-grade3: -40°C to 85°C |
| SM662GAA C4V | 16GB | 2D MLC | 100b BGA 14x18mm | Auto-grade3: -40°C to 85°C |
| SM662GAB C6V | 32GB | 3D TLC | 100b BGA 14x18mm | Auto-grade3: -40°C to 85°C |
| SM662GAC BFS | 64GB | 3D TLC | 100b BGA 14x18mm | Auto-grade3: -40°C to 85°C |
| SM662GAD BFS | 128GB | 3D TLC | 100b BGA 14x18mm | Auto-grade3: -40°C to 85°C |
| SM662GAE BFS | 256GB | 3D TLC | 100b BGA 14x18mm | Auto-grade3: -40°C to 85°C |
| SM662GAF BFS | 512GB | 3D TLC | 100b BGA 14x18mm | Auto-grade3: -40°C to 85°C |
| SM662GB8 C4V | 8GB | 2D MLC | 100b BGA 14x18mm | Auto-grade2: -40°C to 105°C |
| SM662GBA C4V | 16GB | 2D MLC | 100b BGA 14x18mm | Auto-grade2: -40°C to 105°C |
| SM662GBB C6V | 32GB | 3D TLC | 100b BGA 14x18mm | Auto-grade2: -40°C to 105°C |
| SM662GBC BFS | 64GB | 3D TLC | 100b BGA 14x18mm | Auto-grade2: -40°C to 105°C |
| SM662GBD BFS | 128GB | 3D TLC | 100b BGA 14x18mm | Auto-grade2: -40°C to 105°C |
| SM662GBE BFS | 256GB | 3D TLC | 100b BGA 14x18mm | Auto-grade2: -40°C to 105°C |
| SM662GBF BFS | 512GB | 3D TLC | 100b BGA 14x18mm | Auto-grade2: -40°C to 105°C |
| SM662PX8 C4V | 8GB | 2D MLC | 153b BGA 11.5x13mm | C-temp: -25°C to 85°C |
| SM662PXA C4V | 16GB | 2D MLC | 153b BGA 11.5x13mm | C-temp: -25°C to 85°C |
| SM662PXB C6V | 32GB | 3D TLC | 153b BGA 11.5x13mm | C-temp: -25°C to 85°C |
| SM662PXC BFS | 64GB | 3D TLC | 153b BGA 11.5x13mm | C-temp: -25°C to 85°C |
| SM662PXD BFS | 128GB | 3D TLC | 153b BGA 11.5x13mm | C-temp: -25°C to 85°C |
| SM662PXE BFS | 256GB | 3D TLC | 153b BGA 11.5x13mm | C-temp: -25°C to 85°C |
| SM662PXF-BFS | 512GB | 3D TLC | 153b BGA 11.5x13mm | C-temp: -25°C to 85°C |
| SM662PE8 C4V | 8GB | 2D MLC | 153b BGA 11.5x13mm | i-temp: -40°C to 85°C |
| SM662PEA C4V | 16GB | 2D MLC | 153b BGA 11.5x13mm | i-temp: -40°C to 85°C |
| SM662PEB C6V | 32GB | 3D TLC | 153b BGA 11.5x13mm | i-temp: -40°C to 85°C |
| SM662PEC BFS | 64GB | 3D TLC | 153b BGA 11.5x13mm | i-temp: -40°C to 85°C |
| SM662PED BFS | 128GB | 3D TLC | 153b BGA 11.5x13mm | i-temp: -40°C to 85°C |
| SM662PEE BFS | 256GB | 3D TLC | 153b BGA 11.5x13mm | i-temp: -40°C to 85°C |
| SM662PEF BFS | 512GB | 3D TLC | 153b BGA 11.5x13mm | i-temp: -40°C to 85°C |
| SM662PA8 C4V | 8GB | 2D MLC | 153b BGA 11.5x13mm | Auto-grade3: -40°C to 85°C |
| SM662PAA C4V | 16GB | 2D MLC | 153b BGA 11.5x13mm | Auto-grade3: -40°C to 85°C |
| SM662PAB C6V | 32GB | 3D TLC | 153b BGA 11.5x13mm | Auto-grade3: -40°C to 85°C |
| SM662PAC BFS | 64GB | 3D TLC | 153b BGA 11.5x13mm | Auto-grade3: -40°C to 85°C |
| SM662PAD BFS | 128GB | 3D TLC | 153b BGA 11.5x13mm | Auto-grade3: -40°C to 85°C |
| SM662PAE BFS | 256GB | 3D TLC | 153b BGA 11.5x13mm | Auto-grade3: -40°C to 85°C |
| SM662PAF BFS | 512GB | 3D TLC | 153b BGA 11.5x13mm | Auto-grade3: -40°C to 85°C |
| SM662PB8 C4V | 8GB | 2D MLC | 153b BGA 11.5x13mm | Auto-grade2: -40°C to 105°C |
| SM662PBA C4V | 16GB | 2D MLC | 153b BGA 11.5x13mm | Auto-grade2: -40°C to 105°C |
| SM662PBB C6V | 32GB | 3D TLC | 153b BGA 11.5x13mm | Auto-grade2: -40°C to 105°C |
| SM662PBC BFS | 64GB | 3D TLC | 153b BGA 11.5x13mm | Auto-grade2: -40°C to 105°C |
| SM662PBD BFS | 128GB | 3D TLC | 153b BGA 11.5x13mm | Auto-grade2: -40°C to 105°C |
| SM662PBE BFS | 256GB | 3D TLC | 153b BGA 11.5x13mm | Auto-grade2: -40°C to 105°C |
| SM662PBF BFS | 512GB | 3D TLC | 153b BGA 11.5x13mm | Auto-grade2: -40°C to 105°C |

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