

SSDs for Automotive and Industrial Markets



Thrive in Extreme Conditions Using Solid State Storage

Boost performance and reliability of leading-edge automotive electronics systems and industrial-grade applications with the Micron® M500IT and 2100AI/AT SSDs, which extend our proven client SSD portfolio into automotive and industrial domains.

From automotive solutions and heavy robotics to remote communication installations and medical equipment, embedded applications are extremely diverse — often requiring storage solutions that deliver reliable, high performance in a variety of difficult and space-constrained conditions.

With an extended temperature range and robust data protection features, the M500IT and 2100AI/AT SSDs are built to withstand the rigorous demands of automotive and industrial applications. Combine that functionality with Micron's long-term product commitment and customer collaboration to create a design that stands apart from the competition.

Which Applications Are the Best Fit?

With an extended temperature range, robust data security and power-loss protection, the M500IT and 2100AI/AT SSDs are a perfect fit for the newest technology developments in the fields of automotive, science, medicine and manufacturing.

- **Automotive** – In-vehicle infotainment, navigation and driver information, adaptive driver assistance program, black box
- **Industrial** – Aerospace solutions, heavy robotics, remote communication equipment, medical equipment
- **Machine to Machine (M2M)** – Smart security, home, retail, energy and transportation solutions

Key Benefits

1. **Extended Temperature Range**
Withstand extreme environments via an automotive-grade temperature range of -40°C to 85°C and adaptive thermal throttling.
2. **Robust Data Security**
Protect data with industry-leading and on-the-fly hardware-based encryption, secure firmware download and cryptographic erase.
3. **Data Path Protection**
Help to protect user data as it passes through the SSD.
4. **Power-Loss Protection**
Protect data at rest, helping to ensure data integrity in unexpected power-loss events.
5. **Responsive Performance**
Deliver significantly faster boot, file and application load times compared to traditional hard drives.
6. **Low Power Consumption**
Consume considerably less power than typical hard drives.

Micron Automotive and Industrial SSDs

Why Micron for SSDs?

Broad Portfolio

Choose from an extensive portfolio of automotive- and IMM-focused solutions for automotive, industrial and commercial-grade categories.

Extensive Testing

Get predictably reliable, high-quality drives thanks to our rigorous product testing.

Proven Start-to-Finish Quality

From component design to fabrication to the finished package device, our stringent quality requirements, significant investments in SSD test equipment, and advanced NAND management algorithms mean you get reliability built into every drive.

Industry Knowledge and Commitment

Secure a trusted partner with more than 35 years of experience, investing and innovating to support your business.

Roadmap Stability

Take advantage of our extended product lifecycles offered via our [Product Lifecycle Solutions](#).



Choose the form factor that meets your application's specific performance, power and space requirements.

Key Specifications

Family	Part	Density	Form Factor	Sequential Read/Write Performance	Endurance (TBW)	Encryption	Operating Temperature	Mean Time to Failure	Uncorrectable Bit Error Rate (UBER)	Vibration Value
M500IT	MTFDDAK060MBD-2AH12ITYY	60GB	2.5-inch	Up to 500/ 130 MB/s	60TB	245-bit AES, Opal 2.0	-40°C to 85°C	3 million hours	1E-16	20G at 7-2000Hz
	MTFDDAT060MBD-1AH12ITYY		mSATA							
	MTFDDAK120MBD-2AK12ITYY	120GB	2.5-inch		120TB					
	MTFDDAT120MBD-1AK12ITYY		mSATA							
	MTFDDAK240MBD-2AK12ITYY	240GB	2.5-inch		240TB					
	MTFDDAT240MBD-1AK12ITYY		mSATA							
2100AI	MTFDHBL064TDP-1AT12AIYY	64GB	BGA	Up to 550/ 200 MB/s	30TB	256-bit AES, Opal 2.0	Tcase = -40°C to 95°C	3 million hours	1E-16	N/A
	MTFDHBL128TDP-1AT12AIYY	128GB	BGA	Up to 1100/ 420 MB/s	60TB					N/A
	MTFDHBL256TDP-1AT12AIYY	256GB	BGA	Up to 2000/ 850 MB/s	120TB					N/A
	MTFDHBK256TDP-1AT12AIYY		M.2 2230							20G at 7-2000Hz
	MTFDHBL512TDP-1AT12AIYY	512GB	BGA	Up to 2000/ 1550 MB/s	240TB					N/A
	MTFDHBK512TDP-1AT12AIYY		M.2 2230							20G at 7-2000Hz
	MTFDHBM1T0TDP-1AT12AIYY	1TB	BGA	Up to 2000/ 1750 MB/s	480TB					N/A
	MTFDHBK1T0TDP-1AT12AIYY		M.2 2230							20G at 7-2000Hz
2100AT	MTFDHBL064TDQ-1AT12ATYY	64GB	BGA	Up to 550/ 200 MB/s	30TB	256-bit AES, Opal 2.0	Tcase = -40°C to 105°C	3 million hours	1E-16	N/A
	MTFDHBL128TDQ-1AT12ATYY	128GB		Up to 1100/ 420 MB/s	60TB					
	MTFDHBL256TDQ-1AT12ATYY	256GB		Up to 2000/ 850 MB/s	120TB					
	MTFDHBL512TDQ-1AT12ATYY	512GB		Up to 2000/ 1550 MB/s	240TB					
	MTFDHBM1T0TDQ-1AT12ATYY	1TB		Up to 2000/ 1750 MB/s	480TB					

Contact Us

Visit micron.com for more details on the M500IT and 2100AI/AT SSDs and how they can enhance your next innovative automotive, industrial or M2M solution. Contact your Micron sales representative with questions or for samples and support.

micron.com

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