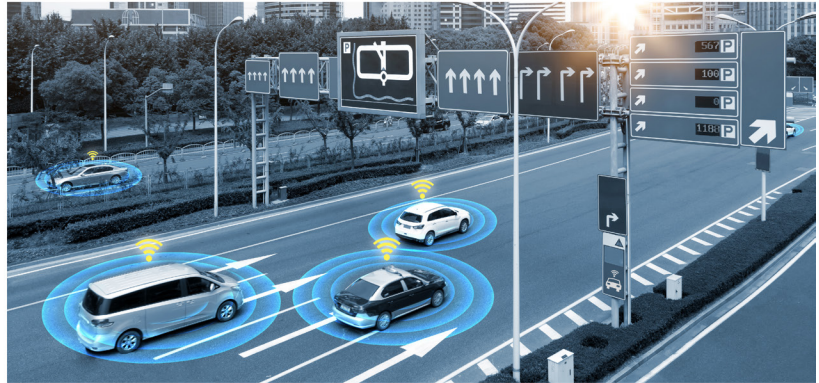


## SSDs for Automotive and Industrial Markets



### 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.

### Which Applications Are the Best Fit?

Combining an extended temperature range and robust data protection features, along with Micron's long-term product commitment and customer collaboration, creates a design that stands apart from the competition.

- **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 Ranges**  
Withstand extreme environments via an industrial temperature range (M500IT:  $-40^{\circ}\text{C}$  to  $85^{\circ}\text{C}$ , 2100AI:  $-40^{\circ}\text{C}$  to  $95^{\circ}\text{C}$ ), an automotive temperature range (2100AT:  $-40^{\circ}\text{C}$  to  $105^{\circ}\text{C}$ ), 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 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

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



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	MTFD0AK128MBD-2AK12IYY	128GB	2.5-inch	Up to 500/ 130 MB/s	120TB	245-bit AES, Opal 2.0	-40°C to 85°C	3 million hours	1E-16	20G at 7-2000Hz
	MTFD0AT128MBD-1AK12IYY		mSATA							
	MTFD0AK256MBD-2AK12IYY	256GB	2.5-inch	Up to 500/ 250 MB/s	240TB					
	MTFD0AT256MBD-1AK12IYY		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](http://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](http://micron.com)

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