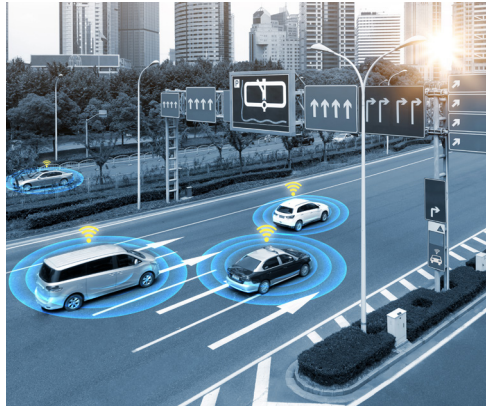


## SSDs for Automotive and Industrial Markets



### 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.

- **Extended Temperature Ranges**—Withstand extreme environments via an industrial temperature range (M500IT: -40°C to 85°C, 2100AI: -40°C to 95°C), an automotive temperature range (2100AT: -40°C to 105°C), and adaptive thermal throttling.
- **Robust Data Security**— Protect data with industry leading and on-the-fly hardware-based encryption, secure firmware download, and cryptographic erase.
- **Data Path Protection**— Help protect user data as it passes through the SSD (2100AI/AT).
- **Power-Loss Protection**—Protect data at rest, helping to ensure data integrity in unexpected power-loss events.
- **Responsive Performance**—Deliver significantly faster boot, file and application load times compared to traditional hard drives.
- **Low Power Consumption**—Consume considerably less power than typical hard drives.



Quality  
Roadmap Stability  
High Reliability  
Ruggedized

### Spotlight: Micron's IT SSDs Withstand the Toughest Tests of the Global Defense Industry

Industrial-grade devices are a must-have for the global defense industry. Working with DRS Technologies, a leading supplier of integrated products, services and support for military forces, Micron's M500IT SSD became the product of choice for one of their largest customers: the U.S. Army.

DRS develops, manufactures and supports a broad range of systems for mission-critical military sustainment requirements, ruggedizing cost-effective, commercial technologies for combat.

DRS was challenged with consumer-grade products not designed for the rugged and unforgiving environment of modern warfighters. Additionally, available "ruggedized" storage designed for this environment was cost-prohibitive.

Micron developed the M500IT SSD to meet the needs of the automotive and embedded industries. The automotive industry's rigorous requirements match well with those of the defense industry.

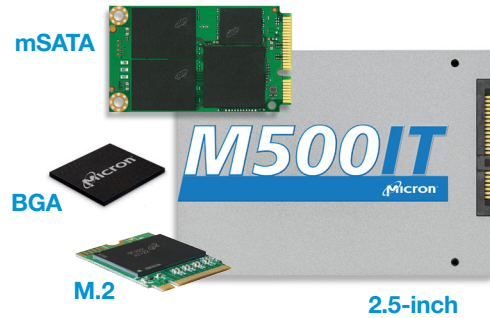
Supporting DRS with early access to engineering sample drives and analysis testing, our products and roadmaps evolved together, resulting in our M500IT being fully qualified for use in DRS' most popular tactical computer platform.

# Micron® Automotive and Industrial SSDs

## Which Applications are the Best Fit?

- **Automotive** — In-vehicle infotainment, navigation and driver information, adaptive driver assistance program, black box.
- **Industrial** — Factory automation, robotics, transportation, medical, defense, retail, industrial networking, video surveillance.

## Choose the Form Factor that Meets Your Requirements



| Family | Part Number              | Density | Form Factor | Sequential Read/Write Performance | Endurance (TBW) | Encryption               | Operating Temperature     | Mean Time to Failure | Uncorrectable Bit Error Rate (UBER) | Vibration Value    |
|--------|--------------------------|---------|-------------|-----------------------------------|-----------------|--------------------------|---------------------------|----------------------|-------------------------------------|--------------------|
| M500IT | MTFD DAK128MBD-2AK12ITYY | 128GB   | 2.5-inch    | Up to 500/<br>130 MB/s            | 120TB           | 256-bit AES,<br>Opal 2.0 | -40°C to 85°C             | 3 million<br>hours   | 1E-16                               | 20G at<br>7-2000Hz |
|        | MTFD DAT128MBD-1AK12ITYY |         | mSATA       |                                   |                 |                          |                           |                      |                                     |                    |
|        | MTFD DAK256MBD-2AK12ITYY | 256GB   | 2.5-inch    | Up to 500/<br>250 MB/s            | 240TB           |                          |                           |                      |                                     |                    |
|        | MTFD DAT256MBD-1AK12ITYY |         | mSATA       |                                   |                 |                          |                           |                      |                                     |                    |
| 2100AI | MTFD HBL128TDP-1AT12AIYY | 128GB   | BGA         | Up to 1100/<br>420 MB/s           | 60TB            | 256-bit AES,<br>Opal 2.0 | Tcase = -40°C<br>to 95°C  | 3 million<br>hours   | 1E-16                               | N/A                |
|        | MTFD HBL256TDP-1AT12AIYY | 256GB   | BGA         | Up to 2000/<br>850 MB/s           | 120TB           |                          |                           |                      |                                     | N/A                |
|        | MTFD HBK256TDP-1AT12AIYY |         | M.2 2230    |                                   |                 |                          |                           |                      |                                     | 20G at<br>7-2000Hz |
|        | MTFD HBL512TDP-1AT12AIYY | 512GB   | BGA         | Up to 2000/<br>1550 MB/s          | 240TB           |                          |                           |                      |                                     | N/A                |
|        | MTFD HBK512TDP-1AT12AIYY |         | M.2 2230    |                                   |                 |                          |                           |                      |                                     | 20G at<br>7-2000Hz |
|        | MTFD HBM1T0TDP-1AT12AIYY | 1TB     | BGA         | Up to 2000/<br>1750 MB/s          | 480TB           |                          |                           |                      |                                     | N/A                |
|        | MTFD HBK1T0TDP-1AT12AIYY |         | M.2 2230    |                                   |                 |                          |                           |                      |                                     | 20G at<br>7-2000Hz |
| 2100AT | MTFD HBL064TDQ-1AT12ATYY | 64GB    | BGA         | Up to 550/<br>200 MB/s            | 30TB            | 256-bit AES,<br>Opal 2.0 | Tcase = -40°C<br>to 105°C | 3 million<br>hours   | 1E-16                               | N/A                |
|        | MTFD HBL128TDQ-1AT12ATYY | 128GB   |             | Up to 1100/<br>420 MB/s           | 60TB            |                          |                           |                      |                                     |                    |
|        | MTFD HBL256TDQ-1AT12ATYY | 256GB   |             | Up to 2000/<br>850 MB/s           | 120TB           |                          |                           |                      |                                     |                    |
|        | MTFD HBL512TDQ-1AT12ATYY | 512GB   |             | Up to 2000/<br>1550 MB/s          | 240TB           |                          |                           |                      |                                     |                    |
|        | MTFD HBM1T0TDQ-1AT12ATYY | 1TB     |             | Up to 2000/<br>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 automotive or industrial solution. Contact your Micron sales representative with questions or for samples and support.

**micron.com**

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