

# Micron 5400 Series SATA NAND Flash SSD Technical Product Specification

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## Features

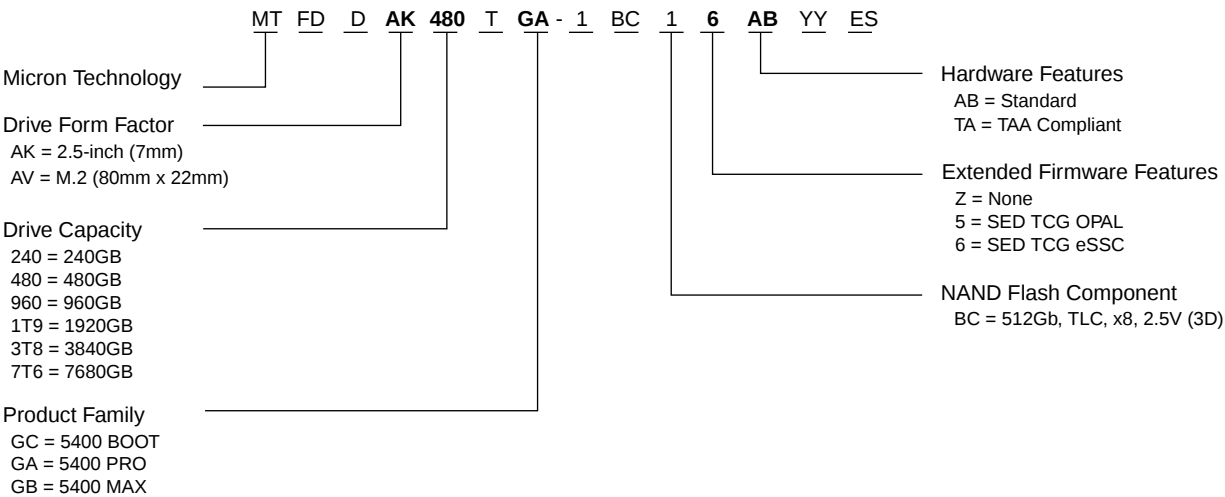
- Micron® 3D TLC NAND Flash
- Three performance/endurance levels
  - BOOT
  - PRO
  - MAX
- TCG Enterprise and TCG Opal 2.0 compliant self-encrypting drive (SED) options
- SATA 6 Gb/s interface
- ATA modes supported
  - PIO mode 3, 4
  - Multiword DMA mode 0, 1, 2
  - Ultra DMA mode 0, 1, 2, 3, 4, 5, 6
- 512-byte sector size support
- Hot-plug capable (2.5-inch only)
- ATA-8 ACS-4 command set compliant
- Security erase command set: fast and secure erase
- Performance (steady state)<sup>1</sup>
  - Sequential 128KB read: Up to 540 MB/s
  - Sequential 128KB write: Up to 520 MB/s
  - Random 4KB read: Up to 95,000 IOPS
  - Random 4KB write: Up to 65,000 IOPS
- Endurance<sup>3</sup>: Total bytes written (TBW)
  - BOOT: Up to 438TB
  - PRO: Up to 10,512TB
  - MAX: Up to 23,827TB
- Reliability
  - MTTF: 3.0 million device hours<sup>2</sup>
  - Static and dynamic wear leveling
  - Uncorrectable bit error rate (UBER): <1 sector per 10<sup>17</sup> bits read
  - End-to-end data protection
  - Enhanced power-loss data protection with data protection capacitor monitoring
- Self-monitoring, analysis, and reporting technology (SMART) command set
- Capacity<sup>3</sup> (unformatted): 240GB, 480GB, 960GB, 1920GB, 3840GB, 7680GB
- Mechanical:
  - 2.5-inch x 7.0mm form factor
  - M.2 Type 2280 form factor
- RoHS-compliant package
- Secure field-upgradeable firmware with digitally signed firmware image
- Operating temperature
  - Commercial (0°C to 70°C)<sup>4</sup>

- Notes: 1. Performance varies by capacity and endurance.  
 2. The product achieves a MTTF based on population statistics not relevant to individual units.  
 3. 1GB = 1 billion bytes; formatted capacity is less.  
 4. As reported by SMART.

Part Numbering Information

Micron’s 5400 SSD is available in different configurations and densities. The chart below is a comprehensive list of options for the 5400 series devices; not all options listed can be combined to define an offered product. Visit [micron.com](https://www.micron.com) for a list of valid part numbers.

Figure 1: Part Number Chart



## Important Notes and Warnings

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## Performance

Measured performance can vary for a number of reasons. The major factors affecting drive performance are the capacity of the drive and the interface/HBA of the host. Additionally, overall system performance can affect the measured drive performance. When comparing drives, it is recommended that all system variables are the same, and only the drive being tested varies.

Performance numbers will vary depending on the host system configuration. Performance is measured using a single drive direct attached (no RAID) to an integrated SATA controller.

**Table 1: Drive Performance – BOOT M.2**

| Parameter                         | Capacity | Unit |
|-----------------------------------|----------|------|
|                                   | 240GB    |      |
| Sequential read (128KB transfer)  | 540      | MB/s |
| Sequential write (128KB transfer) | 290      | MB/s |
| Random read (4KB transfer)        | 62,000   | IOPS |
| Random write (4KB transfer)       | 12,000   | IOPS |
| Random 70/30 R/W (4KB transfer)   | 24,000   | IOPS |
| READ latency (99.9%)              | 170      | µs   |
| WRITE latency (99.9%)             | 390      | µs   |

- Notes: 1. Performance measured using FIO with a queue depth of 32 in the steady state region.  
 2. 4KB transfers with a queue depth of 1 are used to measure READ/WRITE latency values.  
 3. System variations and HBA used will affect measured results.

**Table 2: Drive Performance – PRO M.2/2.5"**

| Parameter                         | Capacity |        |        |        |        |        | Unit |
|-----------------------------------|----------|--------|--------|--------|--------|--------|------|
|                                   | 240GB    | 480GB  | 960GB  | 1920GB | 3840GB | 7680GB |      |
| Sequential read (128KB transfer)  | 540      | 540    | 540    | 540    | 540    | 540    | MB/s |
| Sequential write (128KB transfer) | 350      | 520    | 520    | 520    | 520    | 520    | MB/s |
| Random read (4KB transfer)        | 75,000   | 95,000 | 95,000 | 95,000 | 95,000 | 93,000 | IOPS |
| Random write (4KB transfer)       | 37,000   | 37,000 | 33,000 | 33,000 | 30,000 | 10,500 | IOPS |
| Random 70/30 R/W (4KB transfer)   | 49,000   | 59,000 | 58,000 | 58,000 | 51,000 | 30,000 | IOPS |
| READ latency (99.9%)              | 170      | 170    | 170    | 170    | 170    | 170    | µs   |
| WRITE latency (99.9%)             | 150      | 42     | 80     | 120    | 210    | 400    | µs   |

- Notes: 1. Performance measured using FIO with a queue depth of 32 in the steady state region.  
 2. 4KB transfers with a queue depth of 1 are used to measure READ/WRITE latency values.  
 3. System variations and HBA used will affect measured results.

**Table 3: Drive Performance – MAX 2.5"**

| Parameter                         | Capacity |        |        |        | Unit |
|-----------------------------------|----------|--------|--------|--------|------|
|                                   | 480GB    | 960GB  | 1920GB | 3840GB |      |
| Sequential read (128KB transfer)  | 540      | 540    | 540    | 540    | MB/s |
| Sequential write (128KB transfer) | 520      | 520    | 520    | 520    | MB/s |
| Random read (4KB transfer)        | 95,000   | 95,000 | 94,000 | 95,000 | IOPS |
| Random write (4KB transfer)       | 58,000   | 65,000 | 63,000 | 34,000 | IOPS |
| Random 70/30 R/W (4KB transfer)   | 69,000   | 77,000 | 79,000 | 63,000 | IOPS |
| READ latency (99.9%)              | 170      | 170    | 170    | 170    | μs   |
| WRITE latency (99.9%)             | 36       | 35     | 120    | 90     | μs   |

Notes: 1. Performance measured using FIO with a queue depth of 32 in the steady state region.  
2. 4KB transfers with a queue depth of 1 are used to measure READ/WRITE latency values.  
3. System variations and HBA used will affect measured results.

## Endurance

Endurance for the SSD can be predicted based on the usage conditions applied to the device, the internal NAND component cycles, the write amplification factor, and the wear-leveling efficiency of the drive. Total bytes written measured with 55°C case temperature within the total bytes written values listed in this document. The table below shows the drive lifetime for each SSD capacity based on predefined usage conditions.

**Table 4: Drive Lifetime**

| Capacity | Drive Lifetime (Total Bytes Written) |      |        | Unit |
|----------|--------------------------------------|------|--------|------|
|          | BOOT                                 | PRO  | MAX    |      |
| 240GB    | 438                                  | 657  | 2190   | TB   |
| 480GB    | –                                    | 1324 | 4380   |      |
| 960GB    | –                                    | 2628 | 8760   |      |
| 1920GB   | –                                    | 5256 | 17,520 |      |
| 3840GB   | –                                    | 8410 | 24,528 |      |
| 7680GB   | –                                    | 9110 | –      |      |

Notes: 1. Total bytes written were calculated assuming drive is 100% full (user capacity) and a workload of 100% random, aligned 4KB writes.  
2. 1TB = 1,000,000,000,000 bytes

## Electrical Characteristics

**Table 5: SATA Power Consumption – 2.5-inch**

| Capacity | Idle Average | Sequential Write<br>(128KB transfer) | Sequential Read<br>(128KB transfer) |
|----------|--------------|--------------------------------------|-------------------------------------|
| 240GB    | 1.5W         | 3W                                   | 2.5W                                |
| 480GB    | 1.5W         | 3.1W                                 | 2.5W                                |
| 960GB    | 1.5W         | 3.1W                                 | 2.8W                                |
| 1920GB   | 1.5W         | 3.6W                                 | 3.0W                                |
| 3840GB   | 1.5W         | 3.8W                                 | 2.8W                                |
| 7680GB   | 1.5W         | 3.9W                                 | 2.8W                                |

Notes: 1. Data taken at 25°C using a 6 Gb/s SATA interface.

2. Sequential power measured during Iometer with 128KB transfer, RMS average over a 500ms window.

**Table 6: SATA Power Consumption – M.2 Type 2280**

| Capacity | Idle Average | Sequential Write<br>(128KB transfer) | Sequential Read<br>(128KB transfer) |
|----------|--------------|--------------------------------------|-------------------------------------|
| 240GB    | 1.5W         | 3W                                   | 2.5W                                |
| 480GB    | 1.5W         | 3.1W                                 | 2.5W                                |
| 960GB    | 1.5W         | 3.1W                                 | 2.8W                                |

Notes: 1. Data taken at 25°C using a 6 Gb/s SATA interface.

2. Sequential power measured during Iometer with 128KB transfer, RMS average over a 500ms window.

**Table 7: Operating Voltage**

| Parameter/Condition                   | Symbol         | Min  | Max  | Unit    |
|---------------------------------------|----------------|------|------|---------|
| Voltage input (2.5-inch) <sup>1</sup> | V12            | 10.8 | 13.2 | V       |
|                                       | V5             | 4.5  | 5.5  | V       |
| Voltage input (M.2)                   | 3V3            | 3.14 | 3.46 | V       |
| Operating temperature <sup>2</sup>    | T <sub>C</sub> | 0    | 70   | °C      |
| Non-operating temperature             | –              | –40  | 85   | °C      |
| Rate of temperature change            | –              | –    | 20   | °C/hour |
| Relative humidity (non-condensing)    | –              | 5    | 95   | %       |

Notes: 1. 5V supply required; 12V supply optional

2. Based upon drive temperature reported by SMART

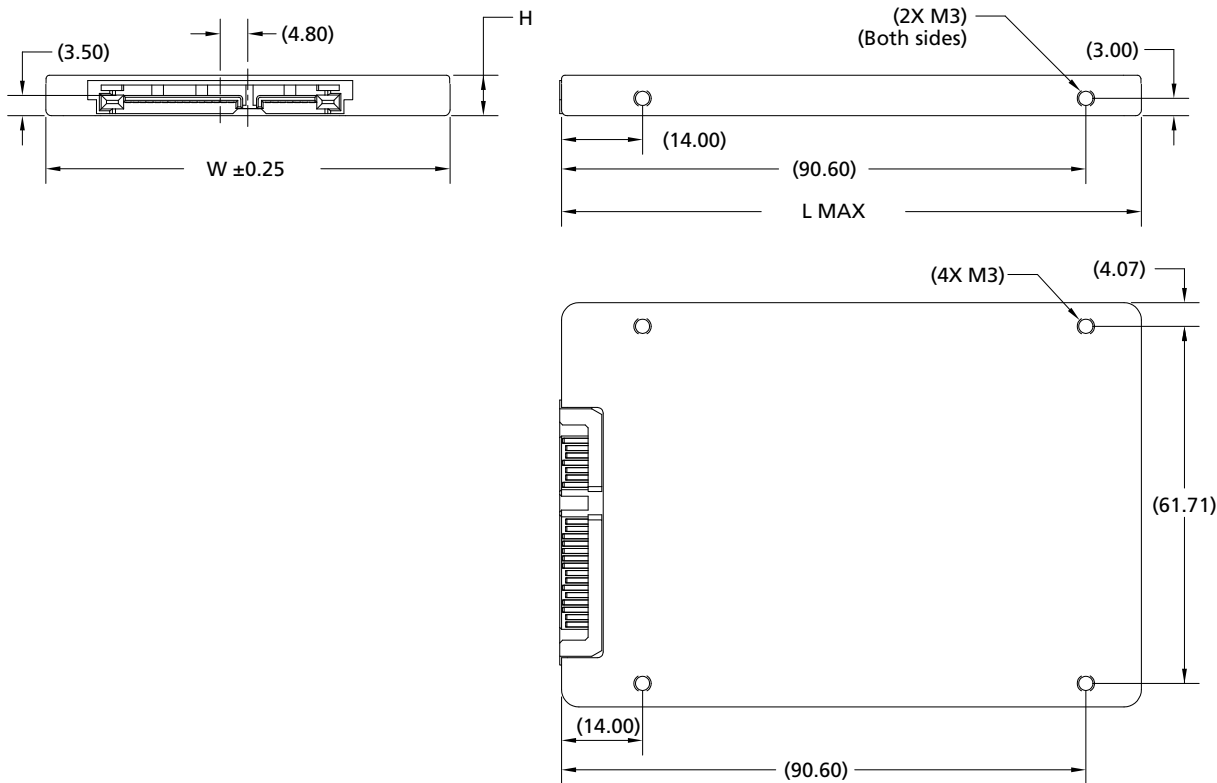
## Physical Configuration

### 2.5-Inch 7mm

Screw: M3 x 0.5 with a maximum of 5mm encroachment into the SSD

Torque: Maximum of 4 in-lbs @ 200 rpm with an actuation style lever

**Figure 2: 2.5-Inch Package – 7mm**

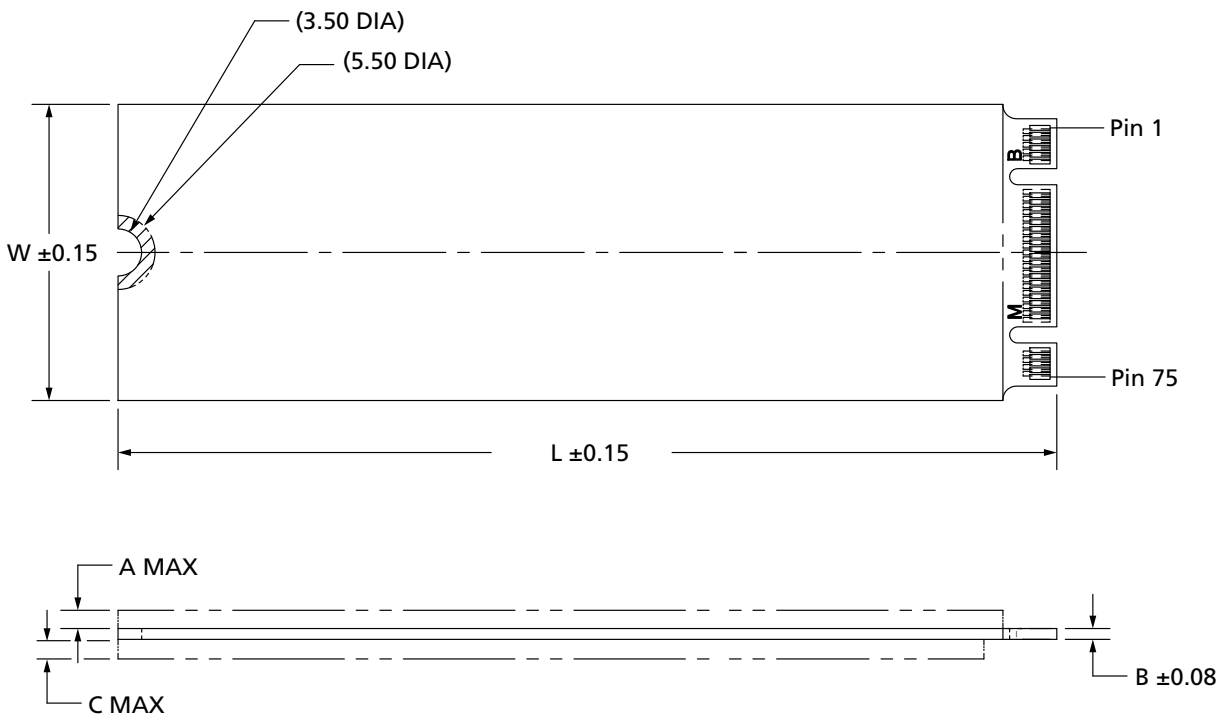


Note: 1. All dimensions are in millimeters.

## M.2 2280

Physical dimensions conform to the applicable form factor specifications as listed in the figure below.

**Figure 3: M.2 Type 2280 Package**



Note: 1. All dimensions are in millimeters.

## Compliance

Micron SSDs comply with the following:

- Micron Green Standard
- Built with sulfur resistant resistors
- CE (Europe): EN 55032 Class B, RoHS
- UKCA (UK): SI 2016/1091 Class B and SI 2012/3032 RoHS
- FCC: CFR Title 47, Part 15 Class B
- UL/cUL: approval to UL-60950-1, 2nd Edition, IEC 60950-1:2005 (2nd Edition); EN 60950-1 (2006) + A11:2009+ A1:2010 + A12:2011 + A2:2013
- BSMI (Taiwan): approval to CNS 13438 Class B and CNS 15663
- RCM (Australia, New Zealand): AS/NZS CISPR32 Class B
- KC RRA (Korea): approval to KN32 Class B, KN 35 Class B
 

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- UkrSEPRO (Ukraine): EN55032 Class B, IEC60950/EN60950, RoHS (Resolution 2017 No. 139)

## **Revision History**

### **Rev. A – 09/2023**

- Initial release

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208-368-4000, [micron.com/support](https://micron.com/support)

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This data sheet contains minimum and maximum limits specified over the power supply and temperature range set forth herein. Although considered final, these specifications are subject to change, as further product development and data characterization sometimes occur.

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