Micron® 2400 SSD With NVMe™

NVMe | PCIe Gen4 | M.2



Industry-Leading Density and an Uncompromising User Experience in a Client SSD

Micron is leading the QLC NAND transition with the Micron® 2400 SSD with NVMe™— the world's first 2TB[1] compact 22x30mm SSD.

The Micron 2400 SSD is the first and most advanced 176-layer QLC SSD, offering industry-leading storage densities and form factor options to enable flexible OEM designs ideal for thin and light notebook PCs.

Available in three compact M.2 form factors with capacities up to 2TB, the Micron 2400 SSD delivers improved storage density, affordability, and flexibility[2] without compromising the user experience.



Micron 2400 SSD 22x30mm

Micron 2400 SSD 22x42mm

Micron 2400 SSD 22x80mm

Key Benefits

Fast system startup and improved performance

The Micron 2400 SSD is designed for everyday client PC use, combining industry-leading 176-layer QLC NAND with PCIe® Gen4 for quick system startup and up to 2X the performance compared to our previous generation SSD.[3]

Affordable, high-capacity NVMe storage for thin and light notebook PCs

The Micron 2400 SSD is available in 22x30mm, 22x42mm and 22x80mm M.2 form factors with capacities up to 2TB. Each shares a common firmware, helping minimize multi-design qualifications.

Enabled by the densest QLC NAND, the 2400 SSD is the world's first and only 2TB single-sided client SSD in a 22x30mm M.2 form factor, making it an ideal solution for thin and light notebook PCs.[4]

Hours of untethered operation for prolonged productivity and entertainment

The Micron 2400 SSD helps reduce host power (battery) demand with active idle power consumption that is 50% lower than our prior generation[5] SSD, and it is designed to support Intel's Project Athena specifications which support over 9 hours of battery life.[6]

1. Capacities: Unformatted. 1GB = 1 billion bytes; formatted capacity is less
2. Based on comparison to prior generation Micron 2210 QLC SSD.
3. Based on Micron 2400 QLC SSD and Micron 2210 QLC SSD, 1TB and 2TB capacity, 128K sequential read performance.
4. Highest GB/mm^2 versus industry available NAND as of Dec. 2021.
5. Comparison based on Micron 2400 QLC SSD and Micron 2210 QLC SSD active idle power.
6. Additional information is available here https://www.intel.com/content/www/us/en/products/docs/devices-systems/laptops/laptop-innovation-program/real-world-testing.html

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Large Capacity, Thin and Light Design

The Micron 2400 SSD is available in 22x30mm, 22x42mm and 22x80mm M.2 form factors, each sharing common firmware to help minimize multi-design qualifications. The tiny 22x30mm form factor eliminates 63% of the space needed for a 22x80mm SSD form factor, enabling room for smaller designs, more battery, and design flexibility.

High-density, cost-efficiency, Micron 176-layer QLC NAND[7], custom dynamic write acceleration, smart power efficiency, Micron host memory buffer (HMB) technology[8], and standards-based security[9] (with TCG Opal 2.01 and Pyrite 2.01 support) make the Micron 2400 SSD a compact, secure storage powerhouse.[9]



M.2 22x30mm
512GB, 1TB, 2TB



M.2 22x42mm
512GB, 1TB, 2TB



M.2 22x80mm
512GB, 1TB, 2TB

Micron 2400 SSD Part Numbers

MT FD K **BA** **512** Q FM - 1 BD 1 **A** AB

- **BA** — Drive Form Factor
  - BA = M.2 (22mm x 80mm)
  - CD = M.2 (22mm x 42mm)
  - BK = M.2 (22mm x 30mm)
- **512** — Drive Capacity
  - 512 = 512GB
  - 1T0 = 1TB
  - 2T0 = 2TB
- **A** — Security Features
  - A = Non-SED[10] TCG Pyrite
  - 5 = SED TCG Opal

Micron® 2400 SSD with NVMe			
Category	Value PCIe Gen4 PCs and notebooks		
Model	Micron 2400 SSD		
Form Factor (mm)	M.2 (22x30, 22x42, 22x80)		
Interface	PCIe Gen4, NVMe 1.4		
Capacities	512GB	1TB	2TB
Sequential Read (MB/s)[11]	4200	4500	4500
Sequential Write (MB/s)[11]	1800	3600	4000
Random Read (IOPS)[11]	400K	600K	600K
Random Write (IOPS)[11]	400K	650K	700K
Endurance (TBW)	150TB	300TB	600TB
MTTF (Million Hours)	2	2	2
Sleep/PS4 Power (mW)	<2.5	<2.5	<2.5
Active Idle Power (mW)	<200	<200	<200
Advanced Features	Hardware-based AES 256-bit encryption, RAIN and SMART, TCG Opal 2.01, TCG Pyrite 2.01, Micron Storage Executive management tool, sanitize, secure boot		

7. Additional information is available here: https://www.micron.com/176
8. Host Memory Buffer technology enables the SSD to use system memory for SSD internal operations.
9. No hardware, software or system can provide absolute security under all conditions. Micron assumes no liability for lost, stolen or corrupted data arising from the use of any Micron products, including those products that incorporate any of the mentioned security features.
10. SED = self-encrypting drive.
11. Sequential read/write: 128KB transfer size, fresh-out-of-box (FOB), queue depth =32; random read/write: 4KB transfer size, fresh-out-of-box (FOB), queue depth = 128.

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