



GET INNOVATIVE FORM FACTORS WITH AFFORDABLE PCIe GEN4 PERFORMANCE¹ FOR ALL-DAY COMPUTING

Flexible, affordable form factor options enable PCIe Gen4 performance untethered from the charger for next-generation mobile, agile computing.

The Micron 2450 is a versatile, flexible SSD that empowers your visionary design with three discrete form factors, as small as 22 x 30mm M.2 and as large as a full sized 22 x 80mm. Its capacity points start at 256GB — ideal to help build entry-level configurations — and scale to 1TB for more demanding applications.

At the same time, ultra-low power consumption dramatically extends compute time. Due to its advanced power efficiency, the Micron 2450 SSD is listed on the Intel® Modern Standby Partner Platform Component List and meets the open labs' SSD test requirements of Intel's Project Athena, allowing the user to compute untethered from the tyranny of the charger. Power-stingy PCIe Gen4 storage built on Micron's HMB² technology means worry-free battery life — better for users and for the environment.

WORLD'S MOST ADVANCED, 176-LAYER NAND

The Micron 2450 SSD is built with Micron 176-layer NAND for the power efficiency and storage density needed to drive demanding mobile applications.



Micron 2450 SSD
22 x 30mm

Micron 2450 SSD KEY BENEFITS

Flexible, Small Form Factors for the Budget Conscious

The Micron 2450 SSD with NVMe offers an ultra-compact 22 x 30mm, standard 22 x 80mm, and a mid-sized 22 x 42mm M.2 form factor choices, supporting a wide variety of designs.

Its budget-conscious capacity points start at just 256GB³, designed for entry-level configurations.

176-Layer NAND and PCIe Gen4 to Speed Your Daily Compute

Micron was the first⁴ to ship 176-layer NAND in volume, and the Micron 2450 SSD uses this major leap in NAND technology to drive improved performance.

With a combination of world-class NAND and PCIe Gen4 performance, the Micron 2450 SSD delivers immense read throughput up to 3.6 GB/s and a write throughput of up to 3GB/s to improve the responsiveness of your applications.

Compute Untethered From the Tyranny of the Charger

The Micron 2450 SSD offers very low power consumption — less than 3mW in sleep power state and less than 400mW in active idle power state.

Go unplugged whenever, wherever; the Micron 2450 SSD is engineered for worry-free battery life.

1. In this document, performance means IOPS, MB/s or both.
2. Host Memory Buffer (SSD uses system memory for SSD internal operations)
3. Capacities: Unformatted. 1GB = 1 billion bytes; formatted capacity is less
4. Based on Micron's 176-layer NAND announcement; see www.micron.com/176 for complete details

A PCIe Gen4 SSD for Everyone

By combining PCIe Gen4 performance and an approachable price point, the Micron 2450 SSD with NVMe enables you to equip more of your solutions and more users. Take advantage of the benefits of NVMe SSDs and PCIe Gen4.

The Micron 2450 SSD is offered in three design-friendly, standard M.2 form factors — as small as 22 x 30mm to fit into the most streamlined platforms up to the conventional 22 x 80mm footprint. Built with Micron’s 176-layer NAND technology, the Micron 2450 SSD’s power-sipping technology enables more users to compute wherever, whenever they want.

Data Security — End to End

To keep your data safe, the Micron 2450 SSD uses Micron’s end-to-end security expertise in hardware and software development. The Micron 2450 SSD is validated with the latest TCG Opal 2.01 and Pyrite 2.01 security standards to combat advanced security threats.⁵

Form Factor Flexibility

The Micron 2450 SSD is engineered to fit into tight, space-constrained platforms as well as in conventional portable device designs. Standard form factors include M.2 22 x 30mm, 22 x 42mm and 22 x 80mm.



M.2 22 x 30mm: 256, 512 and 1024GB



M.2 22 x 42mm: 256, 512 and 1024GB



M.2 22 x 80mm: 256, 512 and 1024GB

micron.com/2450

Micron® 2450 SSD with NVMe			
Category	Value PCIe Gen4 PCs and Notebooks		
Model	Micron 2450 SSD		
Form Factor (mm)	M.2 (22 x 30, 22 x 42, 22 x 80)		
Interface	PCIe Gen4, NVMe 1.4		
Capacities	256GB	512GB	1TB
Sequential Read (MB/s) ⁶	3,500	3,500	3,500
Sequential Write (MB/s) ⁶	1,600	3,000	3,000
Random Read (IOPS) ⁷	190K	380K	450K
Random Write (IOPS) ⁷	400K	500K	500K
Read Latency (TYP) ⁸	50µs	50µs	50µs
Write Latency (TYP) ⁸	12µs	12µs	12µs
Endurance (TBW)	180TB	300TB	600TB
MTTF (Million Hours)	2	2	2
Sleep/PS4 Power (mW)	<3	<3	<3
Slumber/PS3 Power (mW)	<30	<30	<30
Active Idle Power (mW)	<400	<400	<400
Active Read Power (mW) ⁹	<5,500	<5,500	<5,500
Advanced Features	Hardware-based AES 256-bit encryption Power-loss protection (data at rest) RAIN & S.M.A.R.T. Power-loss signal support TCG Opal 2.01, TCG Pyrite 2.01 Micron Storage Executive management tool		

Micron 2450 SSD Part Numbers

MT FD K BA 512 T FK - 1 BC 1 A AB

Drive Form Factor

BA = M.2 (22mm x 80mm)
CD = M.2 (22mm x 42mm)
BK = M.2 (22mm x 30mm)

Security Features

A = Non-SED¹⁰ TCG Pyrite
5 = SED TCG Opal

Drive Capacity

256 = 256GB
512 = 512GB
1T0 = 1024GB

- 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
- Sequential read/write: 128KB transfer size, fresh-out-of-box (FOB), 22 x 80mm form factor; 22 x 30mm and 22 x 42mm sequential read = 3,000 MB/s for all capacities
- Random read/write: 4KB transfer size, fresh-out-of-box (FOB)
- Read/write latency: 4KB transfer size, queue depth 1
- 22 x 80mm form factor (22 x 42mm and 22 x 30mm are lower)
- SED = self-encrypting drive

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