

crucial<sup>®</sup>  
by Micron

# Crucial<sup>®</sup> T500 PCIe<sup>®</sup> Gen4 NVMe<sup>™</sup> SSD



## Runs at the speed of ideas

Elevate system performance with the high-speed  
Crucial T500 Gen4 SSD

The Crucial T500 PCIe<sup>®</sup> Gen4 NVMe<sup>™</sup> SSD is built for high-performance gaming, PlayStation<sup>®</sup> 5 (PS5<sup>™</sup>) gaming console upgrades, and photo or video editing. The T500 offers lightning speeds up to 7,400MB/s<sup>2</sup> and comes enabled with Microsoft<sup>®</sup> DirectStorage<sup>6</sup> for reduced load times and faster rendering in game and in the creative studio.

Available in two options with and without premium heatsink.

## Best For

PCIe<sup>®</sup> 4.0 NVMe storage for high-performance gaming, PlayStation<sup>®</sup> 5 SSD upgrades, photo and video editing

## Key Features

- Fast: Up to 7,400/7,000MB/s sequential reads/writes<sup>2</sup>
- Spacious: 500GB, 1TB and 2TB<sup>3</sup>
- Gaming: Ideal heatsink upgrade for PlayStation<sup>®</sup> 5 (PS5<sup>™</sup>)<sup>9</sup>
- Featuring: Microsoft<sup>®</sup> DirectStorage enabled<sup>6</sup>
- Generation: PCIe<sup>®</sup> 4.0 NVMe M.2 2280 SSD
- Innovation: The world's first 232-layer TLC NAND engineered by Micron<sup>®</sup>
- Warranty: 5 years limited<sup>8</sup>

Micron<sup>®</sup>

## Improve system performance

Faster boots, loads, and saves with 7,400/7,000MB/s sequential reads/writes<sup>2</sup> — the Crucial® T500 PCIe® 4.0 NVMe® SSD is more than 2x faster<sup>5</sup> than Gen3 SSDs and 12x faster<sup>5</sup> than SATA, improving system performance from the moment of installation.

## Elevate creativity with DirectStorage

Tackling heavy creative workloads is easier with the Crucial T500 with Microsoft Direct Storage. Reduced load times and fast rendering give creative professionals more of what they need to unleash creativity<sup>6</sup>.

## Performance to power ratio

With a 40% higher performance to power ratio<sup>4</sup>, the Crucial T500 PCIe® 4.0 NVMe SSD helps keep systems working faster with less power.

## Quick and easy install

Crucial's online tutorials, how-to guides, videos and free Acronis® True Image cloning software help with SSD installation, set up and data migration.

## Industry-leading innovation

Working in close collaboration with controller, CPU, and motherboard vendors, Crucial is the only consumer brand whose parent company, Micron®, innovated the 232-layer TLC NAND inside the T500 Gen4 SSD. Micron's 45-year reputation for industry innovation and leadership backs up the end-to-end quality, reliability, superior testing, and OEM qualification in every Crucial SSD.

Crucial® T500 SSD								
Capacity <sup>5</sup>	Part Number	Sequential Read <sup>2</sup>	Sequential Write <sup>2</sup>	Random Read <sup>2</sup>	Random Write <sup>2</sup>	TBW	Heatsink	Other
500GB	CT500T500SSD8	7,200MB/s	5,700MB/s	800K IOPS	1,390K IOPS	300TB	No	
1TB	CT1000T500SSD8	7,300MB/s	6,800MB/s	1,150K IOPS	1,440K IOPS	600TB	No	PCIe 4.0 NVMe SSD
2TB	CT2000T500SSD8	7,400MB/s	7,000MB/s	1,180K IOPS	1,440K IOPS	1,200TB	No	Warranty: 5 years limited <sup>8</sup>
1TB	CT1000T500SSD5	7,300MB/s	6,800MB/s	1,150K IOPS	1,440K IOPS	600TB	Yes	TCG Opal 2.01
2TB	CT2000T500SSD5	7,400MB/s	7,000MB/s	1,180K IOPS	1,440K IOPS	1,200TB	Yes	

Product dimensions		
	Including heatsink	No heatsink
Length	3.15 in	3.15 in
Height	0.38 in	0.09 in
Width	0.92 in	0.86 in
Weight	1.23 oz	0.86 oz

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1. Gaming speed claims based on Micron test results measuring Forspoken Benchmark, Call of Duty® and Valorant® bootup times of the Crucial T500 and other Gen4 SSDs. Your performance may vary.
2. Typical I/O performance as measured using CrystalDiskMark® with default settings for NVMe SSDs and write cache enabled. Windows 11 Core isolation disabled for performance measurement. Fresh out-of-box (FOB) state is assumed. For performance measurement purposes, the SSD may be restored to FOB state using the secure erase command. System variations will affect measured results.
3. Some of the storage capacity is used for formatting and other purposes and is not available for data storage. 1GB equals 1 billion bytes. Not all capacities available at initial launch.
4. Power-to-performance comparison measured internally between Crucial P5 Plus and T500 PCIe® 4.0 NVMe SSDs. Your performance may vary.
5. Calculated by comparing T500's sequential reads of 7,400MB/s to the previous generation's (P3) speeds of 3,500MB/s, or to the SATA's (MX500) speed of 560MB/s. Actual performance may vary.
6. Compared to Gen4 SSD performance without DirectStorage, based on Micron test results with supported GPU that uses GPU decompression.
7. Faster performance with content creation apps based on internal test results measuring SPECwpc benchmark scores comparing the Crucial T500 to other Gen4 SSDs. Your performance may vary.
8. Warranty valid for five years from the original date of purchase or before writing the maximum total bytes written (TBW) as published in the product datasheet and as measured in the product's SMART data, whichever comes first.
9. See <https://www.playstation.com/en-us/support/hardware/ps5-install-m2-ssd/> for specs and installation instructions.
10. One-month complimentary Adobe® Creative Cloud personal All Apps plan available with eligible Crucial SSD purchase. Adobe Creative Cloud ID and Crucial product registration required for redemption. Eligible Crucial T500 SSDs: CT500T500SSD8, CT1000T500SSD8, CT2000T500SSD8, CT1000T500SSD5, CT2000T500SSD5 must be purchased between October 17, 2023 and December 31, 2024. Offer limited to one redemption per eligible Crucial SSD purchase and registration; up to two per Adobe Creative Cloud user account, subject to acceptance of applicable Terms of Use, while activation code supplies last. Additional terms and conditions may apply. Micron Technology reserves the right to change or discontinue this offer at any time without notice.

