



Crucial® T500 PCIe® Gen4 NVMe™ SSD

Upgrade mode: *Faster*

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

Fuel your system performance with the Crucial® T500 Gen4 NVMe™ SSD. Load games up to 16% faster¹ with sequential read and write speeds² up to 7,400MB/s and 7,000MB/s (up to 1.44M IOPs random reads/writes²). The T500 serves up faster gaming, video editing, and 3D rendering. Easy to install and ready for use with your laptop, desktop, or motherboard, the T500 serves up faster gaming, video editing, 3D rendering and more with up to 4TB of storage³. Built with cutting-edge TLC NAND, a 40% performance-to-power ratio⁴, and speeds that are 2x faster⁵ than Gen3, the T500 optimizes your system performance so it can work faster with less power. Enabled for Microsoft® DirectStorage, the T500 also supports faster⁶ renders and reduced CPU utilization for a richer gaming experience.

Available in two options with and without a premium heatsink.



Sequential reads/writes
up to 7,400MB/s²



Microsoft®
DirectStorage enabled



Up to 42% faster
performance in content
creation apps⁷

crucial.com/t500

Lightning Gen4 performance from Crucial

Speed up boots, loads, and saves with 7,400/7,000MB/s sequential reads/writes² – the Crucial T500 PCIe® 4.0 NVMe SSD is more than 2x faster⁵ than Gen3 SSDs and 12x faster⁵ than SATA.

Power up your PS5

As a PS5™ diehard, you get faster load times and powerful storage for all your favorite games. With our integrated heatsink and powerful Gen4 engineering, the T500 exceeds PS5 requirements⁹ for the ultimate gaming experience.

In-game gains

Real tests don't lie – load games 16% faster¹ with the Crucial® T500 PCIe® 4.0 NVMe SSD. Store more games with up to 4TB³ of storage. With Microsoft® DirectStorage, render faster⁶ and enjoy more detailed game textures.

Performance-to-power ratio

Get more done in less time with the T500's power efficiency. With a 40% higher performance-to-power ratio⁴, the Crucial T500 PCIe® 4.0 NVMe® SSD helps keep your computer 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 you install your SSD, set it as your boot drive and migrate your data.

Crucial® T500 SSD								
Capacity ⁵	Part Number	Sequential Read ²	Sequential Write ²	Random Read ²	Random Write ²	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 ⁸
4TB	CT4000T500SSD3	7,000MB/s	6,900MB/s	1,050K IOPS	1,350K IOPS	2,400TB	No	Warranty: 5 years limited ⁸
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	TCG Opal 2.01
4TB	CT4000T500SSD5	7,000MB/s	6,900MB/s	1,050K IOPS	1,350K IOPS	2,400TB	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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- 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.
- 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.
- 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.
- Power-to-performance comparison measured internally between Crucial P5 Plus and T500 PCIe® 4.0 NVMe SSDs. Your performance may vary.
- 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.
- Compared to Gen4 SSD performance without DirectStorage, based on Micron test results with supported GPU that uses GPU decompression.
- 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.
- 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.
- See <https://www.playstation.com/en-us/support/hardware/ps5-install-m2-ssd/> for specs and installation instructions.
- 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, CT4000T500SSD3, CT1000T500SSD5, CT2000T500SSD5, CT4000T500SSD5 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.