

CRUCIAL T700 PCIe Gen5 NVMe SSD



**Fearless speed.
Unstoppable performance.**

Fuel productivity with the Crucial T700 Gen5 SSD

Extreme users like creatives, engineers and gamers need robust performance that lives on the cutting edge of technology. The Crucial T700 Gen5 SSD with premium integrated heatsink and DirectStorage enabled is the culmination of Micron's engineering excellence. Built on Micron 232-layer TLC NAND³ to provide speeds and capacities that significantly outperform Gen4 drives in every metric and designed for use with high-end motherboards with PCIe 5.0 M.2 slots, the T700 tackles intensive workloads for real-world performance improvements.

Available in two options with and without a premium heatsink.

Best For

PCIe[®] 5.0 NVMe™ storage for high-performance gaming, photo or video editing, and workstation use

Key Features

- Reads/writes speeds up to 12,400/11,800MB/s²
- 4TB, 2TB, 1TB⁵ capacities
- Intel[®] 13th Gen and AMD Ryzen™ 7000 series CPUs
- Maximum heat dissipation without noisy fans (non-heatsink option available¹)
- Microsoft[®] DirectStorage enabled
- PCIe 5.0 NVMe M.2 2280
- Built with Micron[®] 232-layer TLC NAND³
- 5 year limited warranty⁸

Extreme Gen5 performance for high-end PC builds

Professional workstation users and gamers can expect extreme Gen5 performance from the Crucial T700. With up to 12,400/11,800MB/s sequential reads and writes², T700 performance is nearly 2x faster than Gen4 drives⁴.

Ultimate gaming/creativity with DirectStorage

With GPU decompression using DirectStorage, the Crucial T700 can render high-resolution textures up to 60% faster, massively reduce asset load times, and offer up to 99% less CPU utilization for multitasking and maximized I/O performance while gaming⁶.

Optimal temperatures at maximum performance with our premium heatsink

Our aluminum and nickel-plated copper heatsink was custom designed to help maximize performance in game and while 3D rendering while minimizing throttle⁹ – without the noise or fail-ure risk of integrated fans or liquid cooling. Non-heatsink option is also available¹.

Trusted leadership from the ecosystem innovators of Gen5 technology

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 NAND³ in-side the T700 Gen5 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.

Lead your team by upgrading to Gen5 SSDs

With the Crucial T700 Gen5 SSD's extreme performance to get the job done fast and reliability to avoid system failures, there's no need to compromise. Boasting blazing load times and con-sistently high performance for heavy workloads, the Crucial T700 Gen5 NVMe SSD is designed for Intel® 13th Gen & AMD Ryzen™ 7000 series CPUs and PCIe 5.0 motherboards but is also backward compatible with PCIe 3.0 and 4.0 systems for ultimate flexibility.

| Crucial® T700 SSD | | | | | |
|-----------------------|----------------|------------------------------|-------------------------------|----------|---|
| Capacity ⁵ | Part Number | Sequential Read ² | Sequential Write ² | Heatsink | Includes |
| 1TB | CT1000T700SSD5 | 11,700MB/s | 9,500MB/s | Yes | Crucial® Storage Executive Acronis® True Image for Crucial Crucial Easy SSD Install Guide |
| 1TB | CT1000T700SSD3 | 11,700MB/s | 9,500MB/s | No | |
| 2TB | CT2000T700SSD5 | 12,400MB/s | 11,800MB/s | Yes | |
| 2TB | CT2000T700SSD3 | 12,400MB/s | 11,800MB/s | No | |
| 4TB | CT4000T700SSD5 | 12,400MB/s | 11,800MB/s | Yes | |
| 4TB | CT4000T700SSD3 | 12,400MB/s | 11,800MB/s | No | |

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1. Non-heatsink versions of the Crucial T700 must be installed with a motherboard or alternate heatsink to achieve optimal performance.
2. Typical I/O performance as measured using CrystalDiskMark® with a queue depth of 512 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. See [Micron.com/products/nand-flash](https://micron.com/products/nand-flash) for more information.
4. Compared to Crucial P5 Plus Gen4 NVMe SSD listed speed of 6,600MB/s. Actual speed may vary.
5. Some storage capacity is used for formatting and other purposes and is not available for data storage. 1GB equals 1 billion bytes.
6. Compared to Gen5 SSD performance without DirectStorage, based on internal test results with supported GPU that uses GPU decompression.
7. Compared to Crucial MX500 SATA SSD listed speed of 560MB/s. Actual speed may vary.
8. Warranty valid for 5 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. Under typical conditions for airflow and ambient temperature, our pre-installed premium heatsink allows the T700 Gen5 SSD to run at max workload without the need to thermal throttle. Please ensure your drive has proper airflow for maximum performance.
10. Based on internal gaming performance results measured with 3DMark® Storage Benchmark SSD performance test for gamers. Actual results may vary.
11. Compared to SSD temperatures without a cooling apparatus, based on internal testing. The Crucial T700 SSD must be installed with a heatsink for optimal performance.

