



PCIe M.2 SSDs

PCIe SSD 240S

Transcend's PCIe SSD 240S aims at high-end applications, such as digital audio/video production, gaming, and enterprise use, which require constant processing of heavy workloads with no system lags or slowdowns of any kind. Utilizing the PCI Express® Gen4 x4 interface supported by the latest NVMe™ standard, 3D NAND flash memory, a 4-channel controller, and a DRAM cache, the PCIe SSD 240S offers superior transfer speeds that easily beat the competition.



Supreme transfer speeds

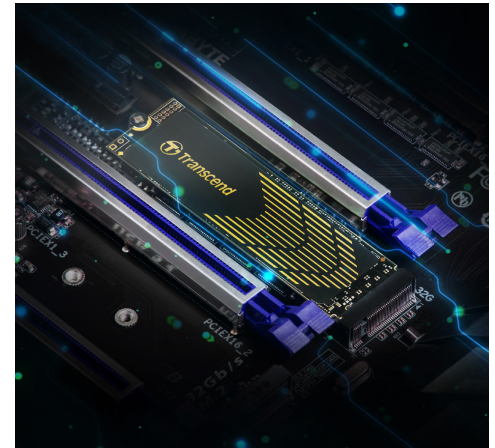
Transcend's PCIe SSD 240S follows the NVMe 1.4 standard and utilizes the PCIe™ Gen4 x4 interface, meaning four lanes are used for transmitting and receiving data simultaneously. Its 4-channel controller supports ultra-high data throughput, resulting in the compelling performance of up to 3,800MB/s read and 3,200MB/s write.

Note: Performance is based on CrystalDiskMark v6.0.2.



Understanding the NVMe PCIe interface

NVMe (or NVM Express®) is a host controller interface standard designed to address the needs of enterprise and client applications that utilize PCI Express-based solid-state storage. The NVMe PCIe interface consists of one or more lanes connected serially, which can best support data transmission between a host computer and an SSD.



Next generation storage: PCIe 4.0 SSD

PCIe SSD 240S features the new PCIe 4.0 specification. It supports a bandwidth of 16 GT/s per lane as opposed to 8 GT/s per lane for PCIe 3.0. Downwards compatible with PCIe 3.0, PCIe 4.0 unleashes a higher processing speed for your computer and guarantees lower system latency.



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Features

- 3D NAND flash
- DDR3 DRAM cache shortens access times
- Built-in SLC caching technology for exceptional transfer speeds
- Graphene heatsink and dynamic thermal throttling mechanism for higher stability
- Space-saving M.2 Type 2280 form factor
- PCIe Gen4 x4 interface and meets NVMe 1.4 standard
- Engineered with a RAID engine and LDPC (Low-Density Parity Check) coding to ensure data integrity



SSD Scope

SSD Scope features useful functions to maintain your SSD in a healthy status and also copy data from your original HDD to Transcend's new SSD.

Specifications

Appearance

Dimensions	Double-sided: 80 mm x 22 mm x 3.77 mm (3.15" x 0.87" x 0.15")
Weight	10 g (0.35 oz)
Type	M.2 2280

Interface

Bus Interface	NVMe PCIe Gen4 x4
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Storage

Flash Type	3D NAND flash
Capacity	500 GB / 1 TB

Operating Environment

Operating Temperature	0°C (32°F) ~ 70°C (158°F)
Operating Voltage	3.3V±5%

Performance

Sequential Read/Write (CrystalDiskMark)	Read: up to 3,800 MB/s Write: up to 3,200 MB/s
4K Random Read/Write (IOMeter)	Read: up to 370,000 IOPS Write: up to 560,000 IOPS
Mean Time Between Failures (MTBF)	5,500,000 hour(s)
Drive Writes Per Day (DWPD)	0.95 (5 yrs)
Terabytes Written (TBW)	up to 1,700 TBW
Note	Speed may vary due to host hardware, software, usage, and storage capacity. The workload used to rate DWPD may be different from your actual workload, which may vary due to host hardware, software, usage, and storage capacity. Terabytes Written (TBW) expresses the endurance under the highest capacity. Some motherboards only provide PCIe x2 connections for the M.2 slot, creating a bottleneck on even the fastest drives.

Warranty

Certificate	CE / FCC / BSMI / KC / RCM
Warranty	Five-year Limited Warranty

Ordering Information

500GB	TS500GMTE240S
1TB	TS1TMTE240S

Product specifications are subject to change without notice. Pictures shown may differ from actual products. Total accessible capacity varies depending on operating environment.