



PCIe M.2 SSDs

PCIe SSD 110S & 112S

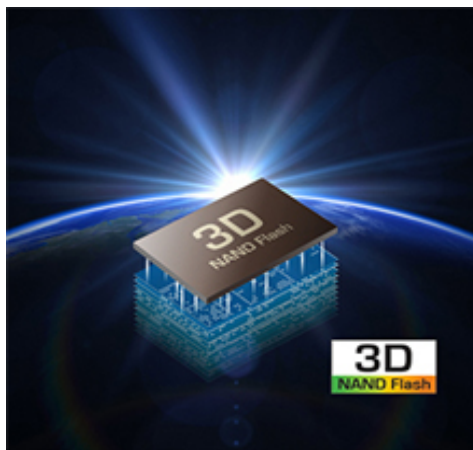
Transcend's PCIe SSD 110S/112S utilizes the PCI Express® Gen3 x4 interface supported by the latest NVMe™ standard, to unleash next-generation performance. The PCIe SSD 110S/112S aims at high-end applications, such as digital audio/video production, gaming, and enterprise use, which require constant processing heavy workloads with no system lags or slowdowns of any kind. Powered by 3D NAND flash memory, the PCIe SSD 110S/112S gives you not only fast transfer speeds but unmatched reliability.



Compelling performance for high-end applications

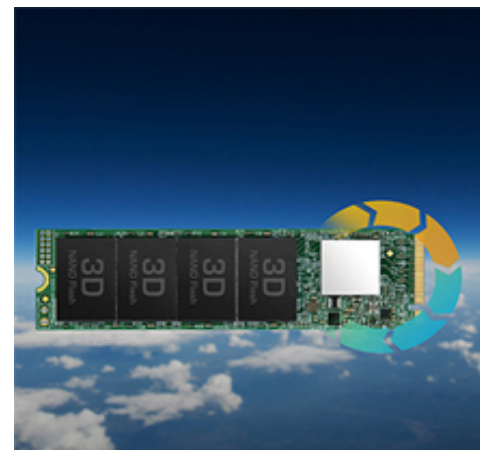
Transcend's PCIe SSD 110S/112S follows NVMe 1.3 and utilizes the PCIe™ Gen3 x4 interface, meaning four lanes are used for transmitting and receiving data simultaneously, resulting in compelling performance of up to 1,700MB/s read and 1,400MB/s write.

Note: Performance is based on CrystalDiskMark v5.0.2.



3D expansion to break through limits

Unlike the existing planar NAND chips, 3D NAND flash is a type of flash memory in which the memory cells are stacked vertically in multiple layers. 3D NAND is developed to break through density limitations of the 2D planar NAND, and thus can deliver a greater level of performance and endurance.



Better endurance, higher reliability

Transcend's PCIe SSD 110S/112S is engineered with LDPC (Low-Density Parity Check) coding, a powerful ECC algorithm, to keep data secure. Manufactured with high-quality NAND flash chips, and engineered dynamic thermal throttling mechanism, the PCIe SSD 110S/112S guarantees superior endurance and stability for high-end applications.



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Features

- 3D NAND flash
- PCIe Gen3 x4 interface and meets NVMe 1.3 standard
- Space-saving M.2 Type 2280 form factor
- Engineered with 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	Single-sided: 80 mm x 22 mm x 2.23 mm (3.15" x 0.87" x 0.09") Double-sided: 80 mm x 22 mm x 3.58 mm (3.15" x 0.87" x 0.14")
Weight	8 g (0.28 oz)
Type	M.2 2280

Interface

Bus Interface	NVMe PCIe Gen3 x4
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Storage

Flash Type	3D NAND flash
Capacity	128 GB / 256 GB / 512 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 1,700 MB/s Write: up to 1,400 MB/s
4K Random Read/Write (IOMeter)	Read: up to 200,000 IOPS Write: up to 300,000 IOPS
Mean Time Between Failures (MTBF)	2,000,000 hour(s)
Drive Writes Per Day (DWPD)	0.2 (5 yrs)
Terabytes Written (TBW)	up to 400 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

128GB	TS128GMTE110S
256GB	TS256GMTE110S TS256GMTE112S
512GB	TS512GMTE110S TS512GMTE112S

