

PCIe M.2 SSDs



PCIe SSD 300S

Transcend's PCIe M.2 SSD MTE300S has a compact form factor and high-quality 3D NAND flash, making it easy to upgrade Ultrabooks, lightweight notebooks, tablets, and handheld gaming PCs. It is designed with multiple firmware optimization technologies, including SLC caching and LDPC ECC mechanism, which improve storage reliability and extend the drive lifespan. The MTE300S is a great choice for boosting the performance of modern work platforms.

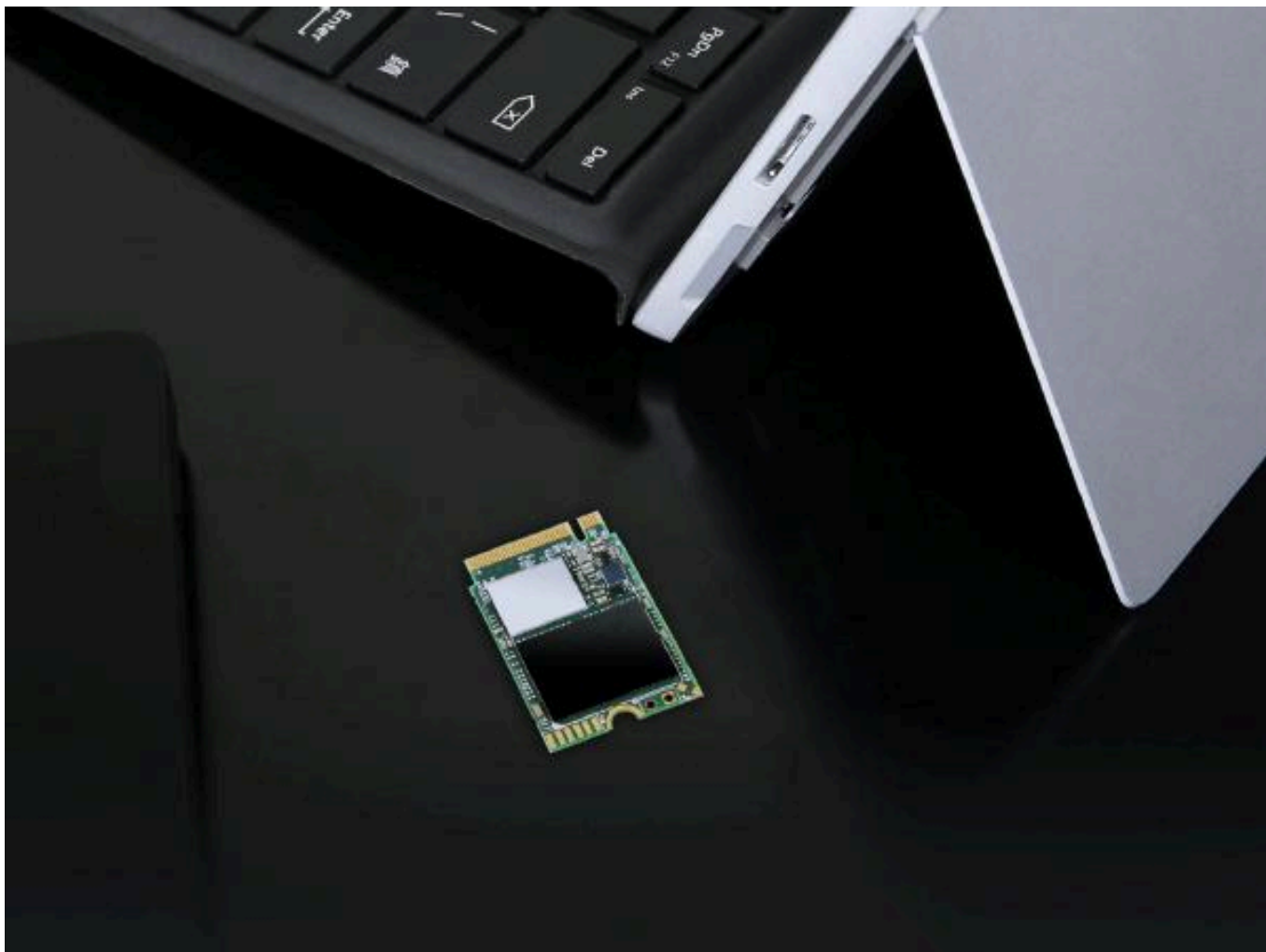
Ready for the Best

Featuring the M.2 standard (30mm), a fast PCIe Gen3x4 interface, up to 2,000 MB/s read and 1,650MB/s write speeds, Transcend's MTE300S SSD is more advanced and efficient than a SATA SSD. The MTE300S delivers higher speeds without sacrificing power to your ultra-thin devices.



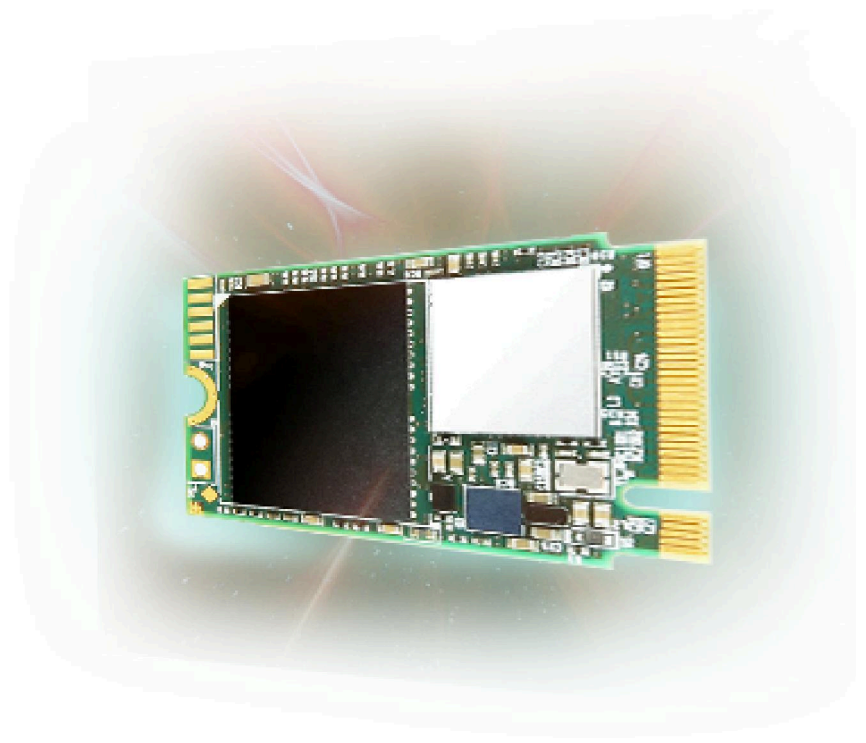
Optimized for Small, Thin Devices

At just 30mm in length, the MTE300S SSD is ideal for Ultrabooks, lightweight notebooks, tablets, and handheld gaming PCs. Thinner and lighter than normal hard drives, the MTE300S SSD gives your computer a much-needed boost while saving space!



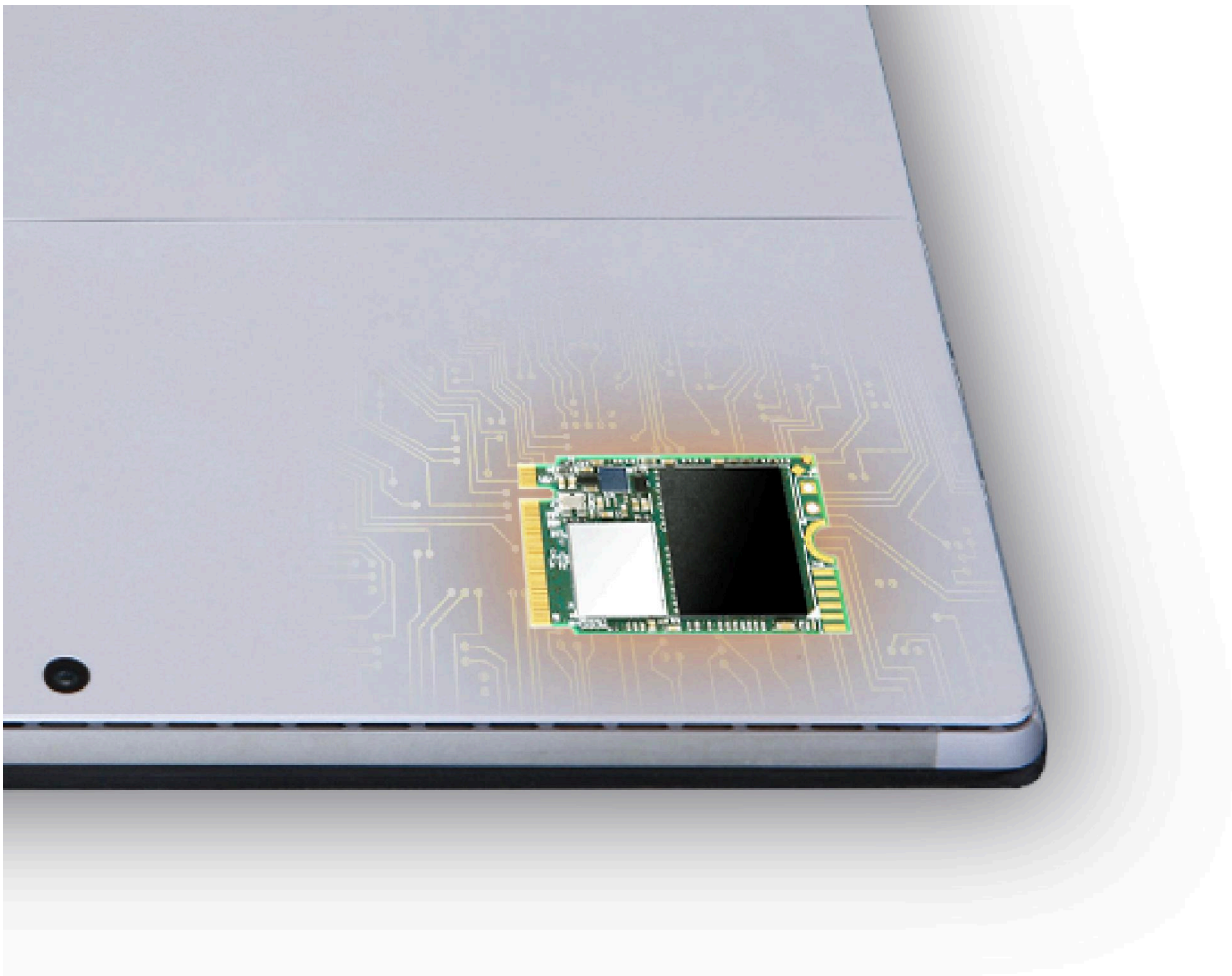
High Productivity Anytime, Anywhere

Dedicated to maximizing system performance, the MTE300S SSD features 4K random file read and write speeds of up to 280,000 IOPS. It delivers faster loading and response times when using applications that require high graphics or heavy computing.



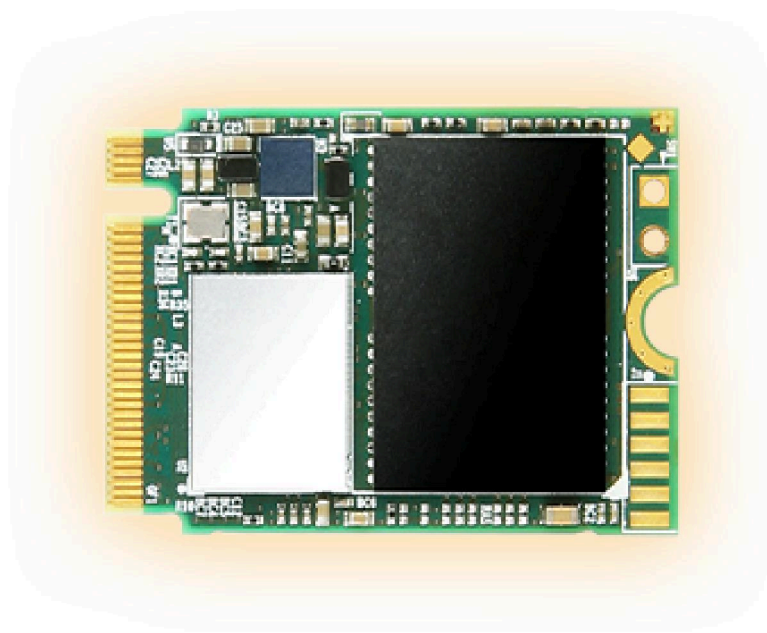
Be Bold, Save More.

Built with high-quality 3D NAND flash, the MTE300S SSD unleashes up to 1TB of capacity for your computer, adding more storage space and enhancing computing efficiency.



Always Reliable, Always Evolving.

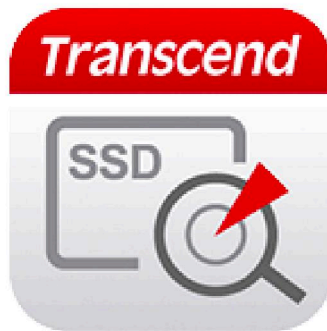
Despite its extra-small dimensions, the MTE300S SSD contains advanced features that ensure secure data storage and a longer lifespan.



SSD Scope Software

Transcend SSD Scope's user-friendly software has tools that make it easy to ensure your Transcend SSD always remains in tip-top shape for whenever you need it.

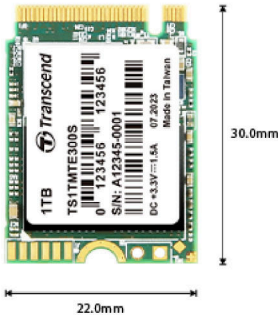
[Learn more \(/support/software/ssd-scope\)](https://support/software/ssd-scope)



Guaranteed Quality

Transcend's solid state drives are built according to the highest standards and rigorously tested to ensure outstanding quality, performance, and reliability.

Specifications



Appearance

Dimensions	Single-sided 30.0 mm x 22.0 mm x 2.23 mm (1.18" x 0.87" x 0.09")
Weight	4 g (0.14 oz)
Type	M.2 2230

Interface

Bus Interface	NVMe PCIe Gen3 x4
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Storage

Flash Type	3D NAND flash
Capacity	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)	1 TB	Up to 2,000/1,650 MB/s
	512 GB	Up to 2,000/1,100 MB/s
	256 GB	Up to 2,000/950 MB/s
4K Random Read/Write (IOmeter)	1 TB	Up to 120,000/280,000 IOPS
	512 GB	Up to 90,000/190,000 IOPS
	256 GB	Up to 90,000/220,000 IOPS
Terabytes Written (TBW)	1 TB	400 TBW
	512 GB	200 TBW
	256 GB	100 TBW
Mean Time Between Failures (MTBF)	2,000,000 hour(s)	
Drive Writes Per Day (DWPD)	0.21 (5 yrs)	
Note	<ul style="list-style-type: none">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 / UKCA / FCC / BSMI / KC / RCM
Warranty	Five-year Limited Warranty
Warranty Policy	<ul style="list-style-type: none">Please click here (/Warranty) for more information about the Transcend Warranty Policy.Warranty does not apply when SSD Scope's lifetime indicator displays 0% within the warranty coverage.

System Requirement

Operating System	<ul style="list-style-type: none">Microsoft Windows 7 or laterLinux Kernel 2.6.31 or later
Note	Systems for use with the PCIe M.2 SSD must have an M.2 connector with only an M key. B-key connectors are not compatible. Improper insertion may lead to damage. Please click here (/Support/FAQ-1206) for more information.

Technology

S.M.A.R.T.	✓
Advanced Garbage Collection	✓
RAID Engine	-
LDPC Coding	✓
DRAM Cache	-

Order Information

256GB

TS256GMTE300S

512GB

TS512GMTE300S

1TB

TS1TMTE300S



Product Sheet
Support



(<https://CDN.transcend-info.com/products/images/modelpic/1294/Transcend-MTE300S-1T.pdf>)
(</support/product/internal-ssd/mte300s>)

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