



Transcend's MTE510T M.2 SSD is a DRAM-less SSD solution utilizing the PCI Express (PCIe) Gen 3 x4 interface, and is fully compatible with NVM Express (NVMe) 1.2 specifications. The next-generation PCIe NVMe protocol allows the SSD to achieve never-before-seen transfer speeds. The cost-effective MTE510T aims at high-end applications, such as digital audio/video production, gaming, and enterprise use at an attractive price. Powered by 64-layer 3D NAND TLC flash memory, the MTE510T offers not only fast transfer speeds but unmatched reliability.

Features

- PCle Gen 3 x4 interface
- Compliant with PCI Express specification Rev. 3.1
- Compliant with NVM Express specification Rev. 1.3
- DRAM-less design
- SLC caching technology
- LDPC ECC algorithm
- · Dynamic thermal throttling
- RoHS compliant
- Supports Transcend SSD Scope

Ordering Information

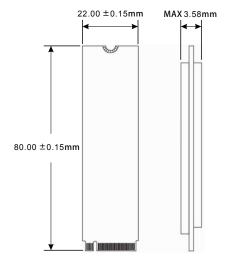
128GB 256GB	TS128GMTE510T TS256GMTE510T
512GB	TS512GMTE510T
1TB	TS1TMTE510T



Specifications

Appearance	Dimensions (Max.)	80 mm x 22 mm x 3.58 mm (3.15" x 0.87" x 0.14")	
	Weight (Max.)	8 g (0.28 oz)	
	Form Factor	M.2	
	M.2 Type	2280-D2-M	
Interface	Bus Interface	NVMe PCIe Gen3 x4	
Storage	Flash Type	3D TLC NAND flash	
	Capacity	128 GB/256 GB/512 GB/1 TB	
Operating Environment	Operating Voltage	3.3V±5%	
	Operating Temperature	0°C (32°F) ~ 70°C (158°F)	
	Storage Temperature	-40°C (-40°F) ~ 85°C (185°F)	
	Humidity	5% ~ 95%	
	Shock	1500 G, 0.5 ms, 3 axis	
	Vibration (Operating)	3 G (peak-to-peak), 5 Hz ~ 800 Hz (frequency)	
	Vibration (Non-operating)	5 G (peak-to-peak), 5 Hz ~ 800 Hz (frequency)	
Power	Power Consumption (Operation)	4.36 watt(s)	
	Power Consumption (Sleep)	0.56 watt(s)	
Performance	Sequential Read/Write (ATTO, max.)	Read: 1800 MB/s; write: 1500 MB/s	
	Sequential Read/Write (CrystalDiskMark, max.)	Read: 1800 MB/s; write: 1500 MB/s	
	4K Random Read/Write (IOmeter, max.)	Read: 180,000 IOPS; write: 150,000 IOPS	
	Mean Time Between Failures (MTBF)	1,500,000 hour(s)	
	Terabytes Written (Max.)	538 TB	
	Drive Writes Per Day (DWPD)	0.33 (3 yrs)	
Warranty	Certificate	CE/FCC/BSMI	
	Warranty	Three-year Limited Warranty	
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. 		

Mechanical Dimensions



Product specifications are subject to change without notice. Pictures shown may differ from actual products. When used as a storage capacity unit, one terabyte (TB) = one trillion bytes. Total accessible capacity varies depending on operating environment.

Due to the complexity and variety of industrial applications, Transcend cannot guarantee 100% compatibility with all platforms and under all scenarios. For special applications and environments, it is strongly suggested that you contact Transcend beforehand for clarification.



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