



PCIe M.2 SSDs

## MTE760T & MTE760T-I

Transcend's M.2 SSD MTE760T is a self-encrypting drive (SED) that complies with the TCG Opal 2.0 standards. Data is protected using the hardware-based AES 256-bit encryption and LBA (Logical Block Address)sector-specific permissions.

Transecnd's MTE760T features the 112-layer 3D NAND flash, a high-speed PCI Express (PCIe) Gen 4 x4 interface, and a powerful controller, achieving never-before-seen transfer speeds. In addition, the 30µ" gold finger PCB, Corner Bond technology, and anti-sulfur resistors guarantee its reliability in harsh conditions. Transcend's MTE760T is also 100% chamber tested in-house for extended operating temperatures of -20°C~75°C.

Transcend also offers the MTE760T-I with wide temperature (-40°C~ 85°C) capabilities to ensure sustained functionality, enhanced endurance and optimal reliability in mission-critical applications.

### Hardware Features

- PCle Gen 4 x4 interface
- · Anti-sulfur technology implemented to prevent sulfurization in the environment
- 30µ" PCB gold finger
- Key components fortified by default with Corner Bond technology
- Power Shield (PS) to ensure data transfer integrity and minimize data corruption in the drive during an abnormal power outage

### Firmware Features

- d reporting for storage devices
- · Advanced Global Wear-Leveling and Block management for reliability
- Built-in LDPC ECC (Error Correction Code) functionality
- Dynamic thermal throttling
- Compliant with TCG Opal specifications and IEEE 1667 standards

•	Supports S.M.A.R.T. function to conduct health monitoring, analysis, an	nd
	reporting for storage devices	

#### \*Supports Microsoft® eDrive standard

### Ordering Information

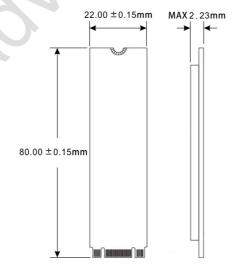
256GB	TS256GMTE760T TS256GMTE760T-I
512GB	TS512GMTE760T TS512GMTE760T-I
1TB	TS1TMTE760T TS1TMTE760T-I
2TB	TS2TMTE760T TS2TMTE760T-I



### **Specifications**

	Dimensions	80 mm x 22 mm x 2.23 mm (3.15" x 0.87" x 0.08")
Appearance	Weight	9 g (0.32 oz)
	Form Factor	M.2 2280
Interface	Bus Interface	NVMe PCIe Gen4 x4
Storage	Capacity	256 GB / 512 GB / 1 TB / 2 TB
	Flash Type	112-layer 3D NAND flash
	Operating Voltage	3.3V±5%
	Operating Temperature	Extended Temp. -20°C (-4°F) ~ 75°C (167°F)
Operating	oporating remperature	Wide Temp. -40°C (-40°F) ~ 85°C (185°F)
Environment	Storage Temperature	-55°C (-67°F) ~ 85°C (185°F)
	Humidity	5% ~ 95%
	Shock	1500 G, 0.5 ms, 3 axis
	Vibration (Operating)	20 G (peak-to-peak), 7 Hz ~ 2000 Hz (frequency)
Power	Power Consumption (Operation)	8.4 watt(s)
	Power Consumption (IDLE)	0.84 watt(s)
	Sequential Read/Write (CrystalDiskMark)	Read: Up to 5,000 MB/s Write: Up to 4,100 MB/s
Performance	4K Random Read/Write (IOmeter)	Read: Up to 500,000 IOPS Write: Up to 415,000 IOPS
i ci ioi iliance	Mean Time Between Failures (MTBF)	3,000,000 hour(s)
	Terabytes Written (TBW)	Up to 2640 TBW
	Drive Writes Per Day (DWPD)	1.2 (3 yrs)
Marranty	Certificate	CE / UKCA / FCC / BSMI
Warranty	Warranty	Three-year Limited Warranty

# Mechanical Dimensions



Product specifications are subject to change without notice. Pictures shown may differ from actual products. 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.