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Embedded Solutions



PCIe M.2 SSDs

Transcend's M.2 2230 SSD MTE370T features state-of-the-art 3D NAND technology, which allows 112 layers of 3D NAND flash chips to be vertically stacked. This density breakthrough greatly improves storage efficiency. The MTE370T features the PCI Express (PCIe) Gen 3 x4 interface and is compatible with NVM Express (NVMe) 1.3 specifications to achieve never-before-seen transfer speeds. Applied with the 30μ " gold finger PCB and Corner Bond technology, the MTE370T is fully tested in-house to guarantee reliability in mission-critical applications, boasting an endurance rating of 3K Program/Erase cycles and an extended operating temperature ranging from -20°C~75°C.

Hardware Features

- Compliant with RoHS 2.0 standards
- Compliant with NVM Express specification 1.3
- Compliant with PCI Express specification 3.1
- Space-saving M.2 form factor (30mm) ideal for mobile computing devices
- · Single-sided to fit perfectly in small form factor devices

Firmware Features

- Supports NVM command
- SLC caching technology
- Dynamic thermal throttling
- Built-in LDPC ECC (Error Correction Code) functionality
- Advanced Garbage Collection

Ordering Information

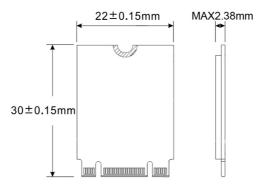
256GB	TS256GMTE370T	
512GB	TS512GMTE370T	



Specifications

AppearanceDimensions30 mm x 22 mm x 2.38 mm (1.18" x 0.87" x 0.08")Veight4 g (0.14 oz)Forn FactorM.2M.2 Type230-S2-MInterfaceBus InterfacePlash TypeNVMe PCle Gen3 x4Capacity256 GB / 512 GBOperating Voltage3.3V±5%
Appearance Form Factor M.2 Form Factor M.2 M.2 Type 2230-S2-M Interface Bus Interface NVMe PCIe Gen3 x4 Flash Type 112-layer 3D NAND flash Capacity 256 GB / 512 GB Operating Voltage 3.3V±5%
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Storage Zapacity 256 GB / 512 GB Operating Voltage 3.3V±5%
Capacity 256 GB / 512 GB Operating Voltage 3.3V±5%
Operating TemperatureExtended Temp. -20°C (-4°F) ~ 75°C (185°F)
Operating Storage Temperature -55°C (-67°F) ~ 75°C (167°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 Consumption (Operation) 3.3 watt(s)
Power Consumption (IDLE) 0.4 watt(s)
Sequential Read/Write (CrystalDiskMark) Read: up to 2,000 MB/s Write: up to 1,100 MB/s
4K Random Read/Write (IOmeter) Read: up to 90,000 IOPS Performance Write: up to 220,000 IOPS
Mean Time Between Failures (MTBF) 3,000,000 hour(s)
Terabytes Written (TBW) up to 480 TBW
Drive Writes Per Day (DWPD) 2.0 (3 yrs)
Certificate CE / FCC / BSMI / UKCA
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.