**Embedded Solutions**

PCIe M.2 SSDs
# MTE550T

Transcend's MTE550T M.2 SSD is a SSD solution utilizing the PCI Express (PCIe) Gen 3 x4 interface, and is fully compatible with NVM Express (NVMe) 1.3 specifications. The next-generation PCIe NVMe protocol allows the SSD to achieve never-before-seen transfer speeds. The cost-effective MTE550T 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 and built with DRAM cache, the MTE550T offers not only outstanding 4K random read and write performance but unmatched reliability.

## Features

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

## Ordering Information

| | |
|---|---|
| 128GB | TS128GMTE550T |
| 256GB | TS256GMTE550T |

## Specifications

| | | |
|---|---|---|
| **Appearance** | Dimensions | 80 mm x 22 mm x 3.58 mm (3.15" x 0.87" x 0.14") |
| | Weight | 8 g (0.28 oz) |
| | Form Factor | M.2 |
| | M.2 Type | 2280-D2-M (Double-sided) |
| **Interface** | Bus Interface | NVMe PCIe Gen3 x4 |
| **Storage** | Flash Type | 3D NAND flash |
| | Capacity | 128 GB/256 GB |
| **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 | 0% ~ 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 watt(s) |
| | Power Consumption (IDLE) | 0.6 watt(s) |
| **Performance** | Sequential Read/Write (ATTO, max.) | Read: 1800 MB/s; write: 800 MB/s |
| | Sequential Read/Write (CrystalDiskMark, max.) | Read: 1800 MB/s; write: 800 MB/s |
| | 4K Random Read/Write (IOmeter, max.) | Read: 142,000 IOPS; write: 134,000 IOPS |
| | Mean Time Between Failures (MTBF) | 1,500,000 hour(s) |
| | Terabytes Written (Max.) | 180 TB |
| | Drive Writes Per Day (DWPD) | 0.66 (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.<br>• 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
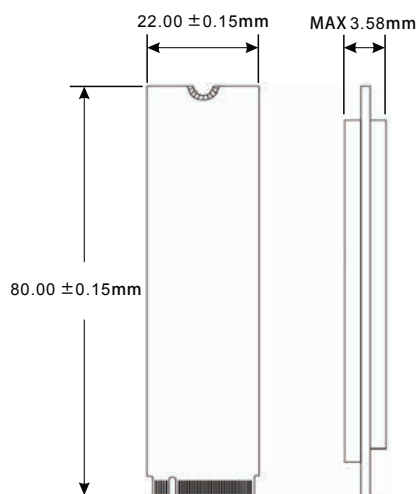


22.00 ± 0.15mm    MAX 3.58mm

80.00 ± 0.15mm

Please feel free to contact us with any special requests you might have.
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