

Embedded Solutions



PCIe M.2 SSDs

MTE730P

Transcend's M.2 22110 SSD MTE730P is a Power Loss Protection (PLP) SSD. During unexpected power outages, the built-in tantalum capacitor provides power to the controller and DRAM cache, ensuring data integrity and storage reliability.

Transcend's MTE730P features the 112-layer 3D NAND flash, a PCI Express (PCIe) Gen4 x4 interface, and an 8-channel controller, achieving never-before-seen transfer speeds. Its built-in DRAM cache enables fast random read and write speeds, and improves drive endurance. In addition, the 30 μ m gold finger PCB, Corner Bond technology, and anti-sulfur resistors guarantee its reliability in harsh conditions. Transcend's MTE730P is also 100% chamber tested in-house for extended operating temperatures ranging from -40°C to 85°C.

Hardware Features

- Compliant with RoHS 2.0 standards
- Compliant with NVMe specification 1.4
- Compliant with PCI Express specification 4.0
- PCIe Gen 4 x4 interface
- DDR4 DRAM Cache embedded

Firmware Features

- Dynamic thermal throttling
- Built-in LDPC ECC (Error Correction Code) functionality
- Advanced Global Wear-Leveling and Block management for reliability
- Advanced Garbage Collection
- Supports S.M.A.R.T. function to conduct health monitoring, analysis, and reporting for storage devices

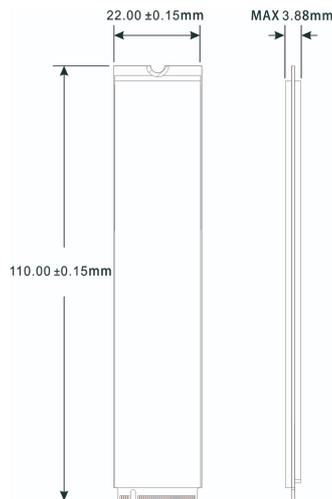
Ordering Information

| | |
|-------|---------------|
| 512GB | TS512GMTE730P |
| 1TB | TS1TMTE730P |
| 2TB | TS2TMTE730P |
| 4TB | TS4TMTE730P |

Specifications

| | | |
|------------------------------|---|---|
| Appearance | Dimensions | 110 mm x 22 mm x 3.88 mm (4.33" x 0.87" x 0.15") |
| | Weight | 11 g (0.39 oz) |
| | M.2 Type | 22110-D5-M |
| | Form Factor | M.2 22110 |
| Interface | Bus Interface | NVMe PCIe Gen4 x4 |
| Storage | Capacity | 512 GB / 1 TB / 2 TB / 4 TB |
| | Flash Type | 112-layer 3D NAND flash |
| Operating Environment | Operating Voltage | 3.3V±5% |
| | Operating Temperature | Wide Temp. -40°C (-40°F) ~ 85°C (185°F) |
| | Storage Temperature | -55°C (-67°F) ~ 85°C (185°F) |
| | Humidity | 5% ~ 95% |
| | Shock | 15 G, 11 ms, 3 axis |
| | Vibration (Non-operating) | 20 G (peak-to-peak), 7 Hz ~ 2,000 Hz (frequency) |
| Power | Power Consumption (Operation) | 6.2 watt(s) |
| | Power Consumption (IDLE) | 0.8 watt(s) |
| Performance | Sequential Read/Write (CrystalDiskMark) | Read: Up to 7,500 MB/s Write: Up to 6,700 MB/s |
| | 4K Random Read/Write (IOmeter) | Read: Up to 540,000 IOPS Write: Up to 440,000 IOPS |
| | Mean Time Between Failures (MTBF) | 3,000,000 hour(s) |
| | Terabytes Written (TBW) | Up to 5,920 TBW |
| | Drive Writes Per Day (DWPD) | 1.35 (3 yrs) |
| Warranty | Certificate | CE / UKCA / FCC / BSMI |
| | 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.