

Embedded Solutions



SATA III M.2 SSDs MTS600 & MTS600I

Transcend's MTS600 with SATA III 6Gb/s interface and ultra compact dimensions make it best suited to address the high-performance needs and strict size limitations of small form factor devices. This means it is perfect for use in today's modern ultrabooks, thin and light notebooks, and tablets. Built with the latest SATA III 6Gb/s specifications, and with a powerful controller and exceptional transfer speeds, the M.2 SSD easily handles everyday computing tasks as well as demanding multimedia applications.

Transcend also offers the MTS600I with wide temperature (-40°C ~ 85°C) capabilities to ensure sustained functionality, enhanced endurance and optimal reliability in mission-critical applications.

Features

- Space-saving M.2 form factor (60mm) – ideal for mobile computing devices
- Wide-temperature model available: promised operational reliability in a wide temperature range (from -40°C ~ 85°C)
- DRAM cache
- Supports S.M.A.R.T., TRIM and NCQ command
- Compliant with RoHS 2.0 standards
- Power-saving DevSleep (Device Sleep) mode (optional)
- MLC NAND Flash

Ordering Information

Standard (0°C~ 70°C)

| | |
|-------|--------------|
| 32GB | TS32GMTS600 |
| 64GB | TS64GMTS600 |
| 128GB | TS128GMTS600 |
| 256GB | TS256GMTS600 |
| 512GB | TS512GMTS600 |

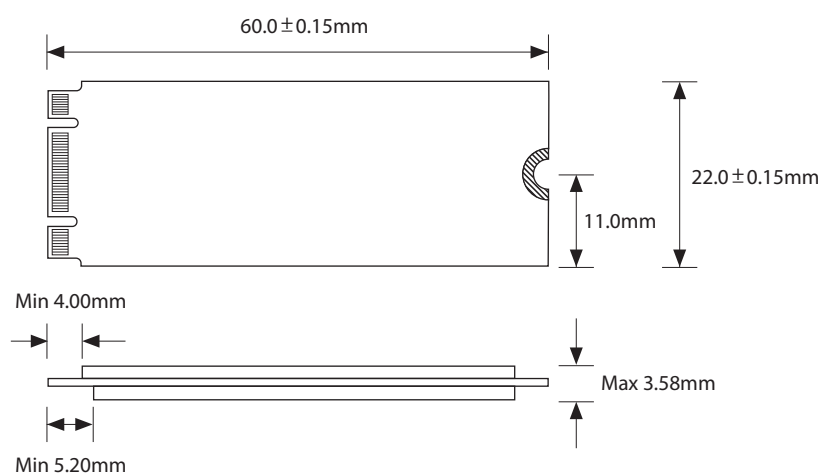
Wide Temp. (-40°C~ 85°C)

| | |
|-------|---------------|
| 32GB | TS32GMTS600I |
| 64GB | TS64GMTS600I |
| 128GB | TS128GMTS600I |
| 256GB | TS256GMTS600I |
| 512GB | TS512GMTS600I |

Specifications

| | | |
|-----------------------|---|---|
| Appearance | Dimensions (Max.) | 60.0 mm x 22.0 mm x 3.58 mm (2.36" x 0.87" x 0.14") |
| | Weight (Max.) | 6 g (0.61 oz) |
| | Form Factor | M.2 |
| | M.2 Type | 2260-D2-B-M |
| Interface | Bus Interface | SATA III 6Gb/s |
| Storage | Flash Type | MLC NAND flash |
| | Capacity | 32 GB/64 GB/128 GB/256 GB/512 GB |
| Operating Environment | Operating Voltage | 3.3V±5% |
| | Operating Temperature | Standard: 0°C (32°F) ~ 70°C (158°F) Wide Temp.: -40°C (-40°F) ~ 85°C (185°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) | 2.50 watt(s) |
| | Power Consumption (Sleep) | 0.35watt(s) |
| Performance | Sequential Read/Write (CrystalDiskMark, max.) | Read: 530 MB/s; write: 450 MB/s |
| | 4K Random Read/Write (IOmeter, max.) | Read: 70,000 IOPS; write: 70,000 IOPS |
| | Mean Time Between Failures (MTBF) | 2,500,000 hour(s) |
| | Terabytes Written (Max.) | 1,480 TB |
| | Drive Writes Per Day (DWPD) | 2.6 (3 yrs) |
| Warranty | Certificate | CE/FCC/BSMI |
| | Warranty | Three-year Limited Warranty |
| Note | <ul style="list-style-type: none"> 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. 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.



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