



MSM362M & MSM362I mSATA mini

Fully compliant with mSATA specifications, Transcend's mSATA MSM362M mini SSD combines ultra-compact dimensions with a high-bandwidth SATA III 6Gb/s interface, ideal for use in small form factor devices such as ultrabooks, industrial PCs, tablets, vehicle PCs, road surveillance recording devices, and other embedded storage applications.

Transcend also offers the MSM362I with wide temperature (-40° C $\sim 85^{\circ}$ C) capabilities to ensure sustained functionality, enhanced endurance and optimal reliability in mission-critical applications.

Hardware Features

- · Compliant with RoHS 2.0 standards
- · Compliant with JEDEC MO-300B
- MLC NAND flash
- · Supports Transcend Scope Pro software
- Promised operational reliability in a wide temperature range (from -40°C to 85°C)

Firmware Features

- Built-in BCH ECC (Error Correction Code) functionality
- · Advanced Global Wear-Leveling and Block management for reliability
- Supports S.M.A.R.T. function to conduct health monitoring, analysis, and reporting for storage devices
- TRIM command for better performance

Ordering Information

| 16GB | TS16GMSM362I TS16GMSM362M |
|-------|--------------------------------|
| 32GB | TS32GMSM362I TS32GMSM362M |
| 64GB | TS64GMSM362I TS64GMSM362M |
| 128GB | TS128GMSM362I TS128GMSM362M |



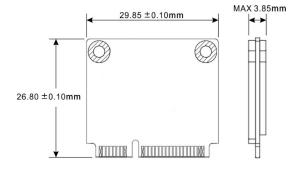


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Specifications

| Dimensions 26.8 mm x 29.85 mm x 3.85 mm (1.06" x 1.18" x 0.15") Weight 5 g (0.18 oz) Pin Count 52 pin Form Factor mSATA mini (MO-300B) Interface Bus Interface SATA III 6Gb/s Storage Flash Type MLC NAND flash Capacity 16 GB 32 GB 64 GB 128 GB Operating Voltage 3.3V±5% Operating Temperature 3.3V±5% Operating Temperature 5°C (32°F) ~ 70°C (158°F) Wide Temp. ~ 40°C (-40°F) ~ 85°C (185°F) Humidity 5% ~ 95% Shock 1500 G, 0.5 ms, 3 axis Operating Voltation (Operating) 20 G (peak-to-peak), 7 Hz ~ 2,000 Hz (frequency) Power Consumption (Sleep) 0.27 watt(s) Power Consumption (Sleep) 0.27 watt(s) Part Office Read: up to 35,000 (DPS Write: up to 220 MB/s Mean Time Between Failures (MTBF) 2,500,000 hour(s) Terabytes Written (TBW) up to 188 TBW Drive Writes Per Day (DWPD) 1.19 (3 yrs) Certificate CE FCC BSMI UKCA | | | |
|--|-------------|---|--|
| Pin Count 52 pin Form Factor mSATA mini (MO-300B) Interface Bus Interface SATA III 6Gb/s Storage Flash Type MLC NAND flash Capacity 16 GB 32 GB 64 GB 128 GB Capacity 16 GB 32 GB 64 GB 128 GB Capacity 16 GB 32 GB 64 GB 128 GB Capacity 16 GB 32 GB 64 GB 128 GB Capacity 16 GB 32 GB 64 GB 128 GB Capacity 16 GB 32 GB 64 GB 128 GB Capacity 16 GB 32 GB 64 GB 128 GB Capacity 16 GB 32 GB 64 GB 128 GB Capacity 16 GB 32 GB 64 GB 128 GB Capacity 16 GB 32 GB 64 GB 128 GB Capacity 16 GB 32 GB 64 GB 128 GB Capacity 16 GB 32 GB 64 GB 128 GB Storage Temperature 16 GB 32 GB 64 GB 128 GB Standard Temp. | Appearance | Dimensions | 26.8 mm x 29.85 mm x 3.85 mm (1.06" x 1.18" x 0.15") |
| Pin Count Form Factor mSATA mini (MO-300B) | | Weight | 5 g (0.18 oz) |
| Interface Bus Interface SATA III 6Gb/s | | Pin Count | 52 pin |
| Flash Type | | Form Factor | mSATA mini (MO-300B) |
| Capacity | Interface | Bus Interface | SATA III 6Gb/s |
| Capacity | Storage | Flash Type | MLC NAND flash |
| Standard Temp. | | Capacity | 16 GB / 32 GB / 64 GB / 128 GB |
| Operating Temperature 0°C (32°F) ~ 70°C (158°F) Wide Temp. | | Operating Voltage | 3.3V±5% |
| Operating 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 ~ 2,000 Hz (frequency) Power Power Consumption (Operation) 2.01 watt(s) Power Consumption (Sleep) 0.27 watt(s) Performance Sequential Read/Write (CrystalDiskMark) Read: up to 520 MB/s Write: up to 220 MB/s Weat Time Between Failures (MTBF) 2,500,000 hour(s) Mean Time Between Failures (MTBF) 2,500,000 hour(s) Terabytes Written (TBW) up to 168 TBW Drive Writes Per Day (DWPD) 1.19 (3 yrs) Certificate CE / FCC / BSMI / UKCA | | Operating Temperature | · · |
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| Drive Writes Per Day (DWPD) 1.19 (3 yrs) Certificate CE / FCC / BSMI / UKCA | | Mean Time Between Failures (MTBF) | 2,500,000 hour(s) |
| Certificate CE / FCC / BSMI / UKCA | | Terabytes Written (TBW) | up to 168 TBW |
| | | Drive Writes Per Day (DWPD) | 1.19 (3 yrs) |
| Warranty | Warranty | Certificate | CE / FCC / BSMI / UKCA |
| Warranty Three-year Limited 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.



Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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