



SATA III M.2 Solid State Drive **M.2 SSD 800S**

Transcend's SATA III 6Gb/s M.2 SSD 800S boasts ultra compact dimensions to address the high performance needs and strict size limitations of small form factor devices, best suited for Ultrabooks and thin, light notebooks. Featuring a powerful controller, exceptional transfer speeds, and MLC NAND flash memory, the M.2 SSD 800S easily handles everyday computing tasks as well as demanding multimedia applications, delivering steadfast reliability.



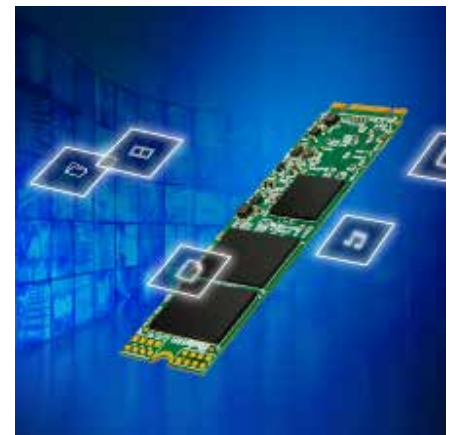
Perfect for your Ultrabook

Measured at just 80mm in length, the M.2 SSD 800S makes for an easy upgrade to your computer, taking up little space while giving it a much needed energy boost.



Superior transfer speeds

Transcend's M.2 SSD 800S reaches incredible read and write speeds of up to 500MB/s and 430MB/s. When used as a cache, the M.2 SSD 800S provides 1.5 times faster boot time than conventional hard drives.



Store more in less space

The M.2 form factor enables expansion and integration of functions onto a single form factor module solution. M.2 SSDs include a smaller form factor but with larger capacities than that of mSATA and half-slim SSDs.



SATA III M.2 Solid State Drive

M.2 SSD 800S

Features

- Space-saving M.2 Type 2280 form factor
- Up to 1TB storage capacity
- Up to 500 MB/s read; 430 MB/s write
- MLC NAND flash memory and DDR3 DRAM cache
- Supports DevSleep ultra low power state, S.M.A.R.T., TRIM, and NCQ commands




SSD Scope Software

Transcend SSD Scope is advanced, user-friendly software that makes it easy to ensure your Transcend SSD remains healthy, and continues to run fast and error-free by determining the condition and optimizing the performance of your drive.

Specifications

Appearance

| | |
|-------------------|---|
| Dimensions (Max.) | 80.0 mm x 22.0 mm x 3.58 mm (3.15" x 0.87" x 0.14") |
| Weight (Max.) | 9 g (0.32 oz) |

Interface

| | |
|---------------|----------------|
| Bus Interface | SATA III 6Gb/s |
|---------------|----------------|

Storage

| | |
|------------|---------------------------------------|
| Flash Type | MLC NAND flash |
| Capacity | 32 GB/64 GB/128 GB/256 GB/512 GB/1 TB |

Operating Environment

| | |
|-----------------------|---------------------------|
| Operating Temperature | 0°C (32°F) ~ 70°C (158°F) |
| Operating Voltage | 3.3V±5% |

Performance

| | |
|--|---|
| Sequential Read/Write (CrystalDiskMark, max.) | Read: 500 MB/s |
| | Write: 430 MB/s |
| 4K Random Read/Write (IOMeter, max.) | Read: 70,000 IOPS |
| | Write: 75,000 IOPS |
| Mean Time Between Failures (MTBF) | 1,500,000 hour(s) |
| Terabytes Written (Max.) | 2,360 TB |
| Drive Writes Per Day (DWPD) | 2 (3 yrs) |
| Note | Speed may vary due to host hardware, software, usage, and storage capacity. |

Warranty

| | |
|-------------|-----------------------------|
| Certificate | CE/FCC/BSMI |
| Warranty | Three-year Limited Warranty |

Ordering Information

| | |
|-------|---------------|
| 32GB | TS32GMTS800S |
| 64GB | TS64GMTS800S |
| 128GB | TS128GMTS800S |
| 256GB | TS256GMTS800S |
| 512GB | TS512GMTS800S |
| 1TB | TS1TMTS800S |

SATA III M.2 SSDs Comparison



SATA III 6Gb/s
M.2 SSD 400S



SATA III 6Gb/s
M.2 SSD 600



SATA III 6Gb/s
M.2 SSD 800S

Appearance

| | | | |
|-------------------|--|--|--|
| Dimensions (Max.) | 42.0 mm x 22.0 mm x 3.58 mm (1.65" x 0.87" x 0.14") | 60.0 mm x 22.0 mm x 3.58 mm (2.36" x 0.87" x 0.14") | 80.0 mm x 22.0 mm x 3.58 mm (3.15" x 0.87" x 0.14") |
| Weight (Max.) | 5 g (0.18 oz) | 7 g (0.25 oz) | 9 g (0.32 oz) |

Storage

| | | | |
|------------|----------------|--------------|------------|
| Flash Type | MLC NAND flash | | |
| Capacity | 32GB ~ 512GB | 32GB ~ 512GB | 32GB ~ 1TB |

Operating Environment

| | | | |
|-----------------------|---------------------------|--|--|
| Operating Temperature | 0°C (32°F) ~ 70°C (158°F) | | |
|-----------------------|---------------------------|--|--|

Performance

| | | | |
|--|---|---|---|
| Sequential Read/Write (ATTO, max.) | - | Read: 550 MB/s Write: 460 MB/s | - |
| Sequential Read/Write (CrystalDiskMark, max.) | Read: 500 MB/s Write: 450 MB/s | Read: 520 MB/s Write: 460 MB/s | Read: 500 MB/s Write: 430 MB/s |
| 4K Random Read/Write (IOmeter, max.) | Read: 70,000 IOPS Write: 70,000 IOPS | Read: 75,000 IOPS Write: 75,000 IOPS | Read: 70,000 IOPS Write: 75,000 IOPS |
| Mean Time Between Failures (MTBF) | 1,500,000 hour(s) | | |
| Terabytes Written (Max.) | 1,100 TB | 1,100 TB | 2,360 TB |
| Drive Writes Per Day (DWPD) | 2 (3 yrs) | | |

Warranty

| | | | |
|----------|-----------------------------|--|--|
| Warranty | Three-year Limited Warranty | | |
|----------|-----------------------------|--|--|

Technology

| | | | |
|-----------------------------|---|---|---|
| TRIM & NCQ Command | ✓ | ✓ | ✓ |
| S.M.A.R.T. | ✓ | ✓ | ✓ |
| DDR3 DRAM Cache | ✓ | ✓ | ✓ |
| Advanced Garbage Collection | ✓ | ✓ | ✓ |
| DevSleep Mode | ✓ | ✓ | ✓ |
| RAID Engine | - | - | - |
| LDPC Coding | - | - | - |

*Speed may vary due to host hardware, software, usage, and storage capacity.