SATA III M.2 Solid State Drive

# M.2 SSD 420S

Transcend's ultra-compact SATA III 6Gb/s M.2 SSD 420S addresses the high-performance needs and strict size limitations of small form factor devices, best suited for Ultrabooks and thin, light notebooks. Boasting high-quality flash chips and enhanced firmware algorithms, Transcend's M.2 SSD 420S delivers optimal reliability.

### Perfect for your Ultrabook

Measured at just 42mm in length, the M.2 SSD 420S 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 420S reaches incredible read and write speeds of up to 530MB/s and 480MB/s. When used as a cache, the M.2 SSD 420S 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 420S

## Features

· Space-saving M.2 Type 2242 form factor
· Up to 530 MB/s read; 480 MB/s write
· 3D NAND flash memory
· RAID engine and LDPC coding for data integrity; DDR3 DRAM cache for short access times
· Supports 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 | 42.0 mm x 22.0 mm x 3.58 mm (1.65" x 0.87" x 0.14") |
| Weight | 5 g (0.18 oz) |

### Interface

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

### Storage

| | |
|---|---|
| Flash Type | 3D NAND flash |
| Capacity | 120 GB/240 GB/480 GB |

### Operating Environment

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

### Performance

| | |
|---|---|
| Sequential Read/Write (CrystalDiskMark) | Read: 530 MB/s<br>Write: 480 MB/s |
| 4K Random Read/Write (IOmeter) | Read: 50,000 IOPS<br>Write: 75,000 IOPS |
| Mean Time Between Failures (MTBF) | 1,000,000 hour(s) |
| Terabytes Written | 160 TB |
| Drive Writes Per Day (DWPD) | 0.3 (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

| | |
|---|---|
| 120GB | TS120GMTS420S |
| 240GB | TS240GMTS420S |
| 480GB | TS480GMTS420S |