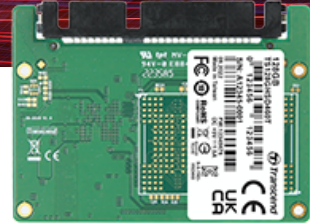


## Embedded Solutions

### Half-Slim SSDs

# HSD460T



Transcend's HSD460T half-slim SSD is built by 112 layers of 3D NAND flash and the SATA III 6Gb/s interface, delivering never-before-seen transfer speeds. Applied with the Corner Bond technology and anti-sulfur resistor, the HSD460T is fortified to withstand demanding industrial applications. Following JEDEC's MO-297 standard, the HSD460T is fully tested in-house and is able to operate in extended operating temperatures ranging from -20°C~75°C, ideal for read-heavy applications and space-limited mobile devices such as industrial control systems, medical equipment, mobile devices, and POS terminals.

### Hardware Features

- Compliant with RoHS 2.0 standards
- Compliant with JEDEC MO-297
- Anti-sulfur technology implemented to prevent sulfurization in the environment
- Key components fortified by default with Corner Bond technology
- Power Shield (PS) to ensure data transfer integrity and minimize data corruption in the drive during an abnormal power outage

### Ordering Information

|       |               |
|-------|---------------|
| 64GB  | TS64GHSD460T  |
| 128GB | TS128GHSD460T |

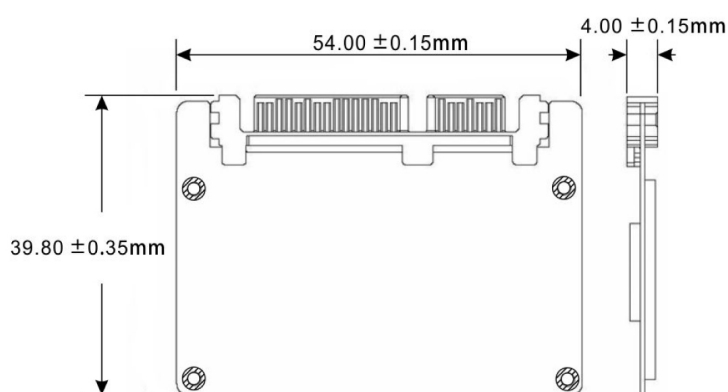
### Firmware Features

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

## Specifications

|                              |                                         |                                                     |
|------------------------------|-----------------------------------------|-----------------------------------------------------|
| <b>Appearance</b>            | Dimensions                              | 54 mm x 39.8 mm x 4 mm (2.13" x 1.57" x 0.15")      |
|                              | Weight                                  | 9 g (0.32 oz)                                       |
|                              | Pin Count                               | 7+15 pin                                            |
|                              | Form Factor                             | Half-slim (MO-297)                                  |
| <b>Interface</b>             | Bus Interface                           | SATA III 6Gb/s                                      |
| <b>Storage</b>               | Capacity                                | 64 GB / 128 GB                                      |
|                              | Flash Type                              | 112-layer 3D NAND flash                             |
| <b>Operating Environment</b> | Operating Voltage                       | 5V±5%                                               |
|                              | Operating Temperature                   | Extended Temp.<br>-20°C (-4°F) ~ 75°C (167°F)       |
|                              | 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)    |
| <b>Power</b>                 | Power Consumption (Operation)           | 1.5 watt(s)                                         |
|                              | Power Consumption (Sleep)               | 0.3 watt(s)                                         |
| <b>Performance</b>           | Sequential Read/Write (CrystalDiskMark) | Read: up to 560 MB/s<br>Write: up to 490 MB/s       |
|                              | 4K Random Read/Write (IOMeter)          | Read: up to 30,000 IOPS<br>Write: up to 80,000 IOPS |
|                              | Mean Time Between Failures (MTBF)       | 3,000,000 hour(s)                                   |
|                              | Terabytes Written (TBW)                 | up to 245 TBW                                       |
|                              | Drive Writes Per Day (DWPD)             | 1.75 (3 yrs)                                        |
| <b>Warranty</b>              | Certificate                             | CE / FCC / BSMI / UKCA                              |
|                              | 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.