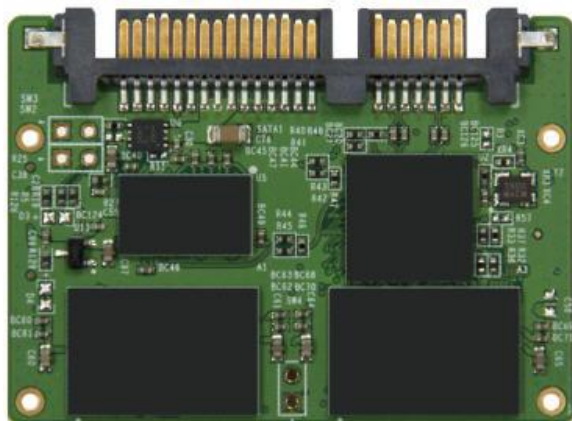


## SATA II 3Gb/s Half-Slim SSD



- MO-297 Form Factor
- Fully compatible with devices and OS that support the SATA II 3Gb/s standard
- Non-volatile Flash Memory for outstanding data retention
- Built-in ECC (Error Correction Code) functionality and wear-leveling algorithm ensures reliable data transfer
- Advanced Garbage Collection
- Hardware Purge and Write Protect
- Supports Transcend SSD Scope Pro
- Advanced Power Shield

### HSD630 Benefits

Transcend HSD630 is a SATA II 3Gb/s Half-slim type device built with high performance, quality Flash Memory assembled on a printed circuit board. It features cutting-edge technology to enhance product life and data retention. Designed with multitasking power users in mind, the HSD630 is capable of running many demanding system applications, including specialized multimedia computing and advanced gaming. As a result, HSD630 is the perfect storage device for industrial PCs, Laptops, gaming systems, and handheld devices.

### Enhanced Performance

HSD630 is able to offer incredible transfer speeds of up to 262MB/s read and 81MB/s write. This fast speed translates into significantly faster system boot up, application launch speed, data transfers, and overall system responsiveness. Moreover, support for Native Command Queuing (NCQ), increases the performance and efficiency of the HSD630 by optimizing the order in which received read and write commands are executed.

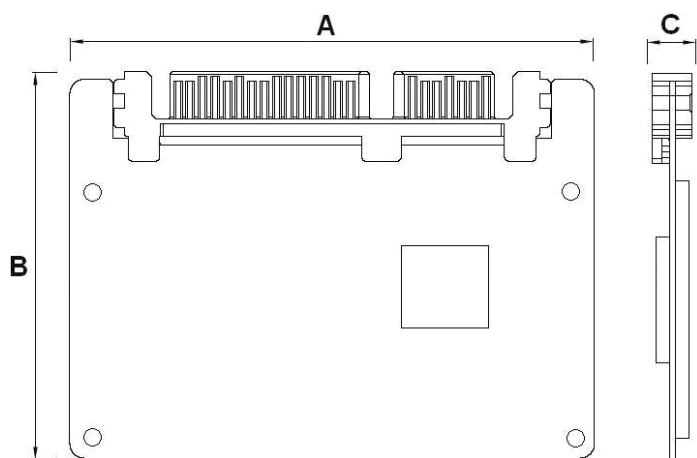
### Applications

The HSD630 which fits the standard dimensions of Half-Slim Hard Disk Drives boasts an ultra-slim to address the size limitations of today's modern Ultrabooks, notebooks, and other thin and light form factor devices. HSD630 not only provides resistance from shock and vibration, but also offers low power consumption and cool, silent operation to greatly benefit notebook users with increased efficiency and longer battery runtime. HSD630 also supports hardware purge which may quickly erase all data with a push of a button or write protect which may prevent any data from being modify.

## Built-In Reliability

HSD630 utilizes advanced garbage collection algorithm which maintains SSD high performance even after long time operation. To further increase the lifespan of the SSD, built-in wear-leveling and Error Correction Code (ECC) ensure reliable data transfer, while full support of the S.M.A.R.T. command helps detect possible hard drive failures before they occur.

## Placement



## Dimensions

Side	Millimeters	Inches
A	54.00 ± 0.40	2.160 ± 0.016
B	39.00 ± 0.20	1.560 ± 0.008
C	4.00 ± 0.15	0.160 ± 0.006

## Specifications

Environmental Specifications		
Operating Temperature		0 °C to 70 °C
Storage Temperature		- 40 °C to 85 °C
Humidity	Operating	0% to 95% (Non-condensing)
	Non-Operating	0% to 95% (Non-condensing)

Physical Specification	
Form Factor	MO-297
Storage Capacities	32 GB to 64 GB
Input Voltage	5V ± 5%
Weight	11g
Connector	SATA 7+15 pins combo connector

Performance						
Model P/N	Sequential Read*	Sequential Write*	Random Read (4KB QD32)*	Random Write (4KB QD32)*	IOPS Random Read (4KB QD32)**	IOPS Random Write (4KB QD32)**
TS32GMSA630	235.8	40.72	70.39	38.77	14390.94	3511.955
TS64GMSA630	262.5	81.07	70.48	68.3	14409.76	4141.277

Note: Maximum transfer speed recorded

\* 25 °C, test on ASUS P8P67 + Intel Core i5, 4GB, Windows® 7 with AHCI mode, benchmark utility Crystal DiskMark (version 3.0), copied file 1000MB, unit MB/s

\*\* Random read/write performance based on IOMeter2006 with 4K file size and queue depth of 32 at full size LBA address, unit IOPs

\*\*\* The recorded performance is obtained while the SSD is not operating as an OS disk

Power Consumption		
Model P/N / Power Consumption		Typical (mA)
TS32GHSD630	Read	258.4
	Write	232.6
	Idle	141.2
TS64GHSD630	Read	258.8
	Write	303.5
	Idle	139.5

\*Tested with IOMeter running sequential reads/writes and idle mode

Reliability	
Data Reliability	Supports 40 bits per 1024 bytes
MTBF	1,000,000 hours
Endurance (TeraBytes Written)	32G: T.B.D. 64G: T.B.D.

Vibration	
Operating	3.0G(peak-to-peak), 5 - 800Hz
Non-Operating	5.0G(peak-to-peak), 5 - 800Hz

Note: Reference to the IEC 60068-2-6 Testing procedures;  
 Operating-Sine wave, 5-800Hz/1 oct., 1.5mm, 3g, 0.5 hr./axis, total 1.5hrs.

Shock	
Operating	1500G, 0.5ms
Non-Operating	1500G, 0.5ms