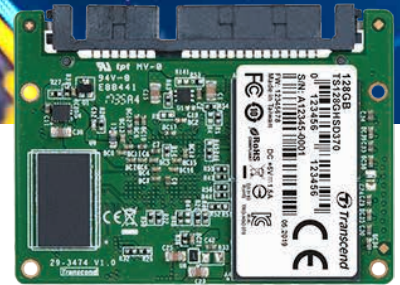**Embedded Solutions**

Half-Slim SSDs
SATA III 6Gb/s HSD370 & HSD370I Half-Slim SSD

Equipped with the SATA III 6Gb/s interface and a powerful controller, Transcend's HSD370 Half-Slim SSDs deliver outstanding transfer speeds in a compact form factor. Following the MO-297 standard set by JEDEC, SATA III 6Gb/s half-slim SSD modules undergo extensive reliability testing to ensure the utmost quality and performance, best suited to read-heavy applications and space-limited mobile devices such as industrial control systems, medical equipment, mobile devices, and POS terminals.

Transcend also offers the HSD370I with wide temperature (-40℃~ 85℃) capabilities to ensure sustained functionality, enhanced endurance and optimal reliability in mission-critical applications.

Features

- DRAM Cache embedded
- Wide-temperature model available: promised operational reliability in a wide temperature range (from -40℃ to 85℃)
- Advanced Global Wear-Leveling and Block management for reliability
- Advanced Garbage Collection
- Security Command
- Built-in ECC (Error Correction Code) functionality
- Enhanced S.M.A.R.T. function for durability
- Compliant with RoHS 2.0 standards
- Power-saving DevSleep (Device Sleep) mode
- MLC NAND Flash

Ordering Information

Standard (0℃~ 70℃)

8GB	TS8GHSD370
16GB	TS16GHSD370
32GB	TS32GHSD370
64GB	TS64GHSD370
128GB	TS128GHSD370

Wide Temp. (-40℃~ 85℃)

16GB	TS16GHSD370I
32GB	TS32GHSD370I
64GB	TS64GHSD370I

Specifications

Appearance	Dimensions	54 mm x 39.8 mm x 4 mm (2.13" x 1.57" x 0.15")
	Weight	8 g (0.28 oz)
	mSATA Type	MO-297
	Pin	7+15 pin
	Form Factor	Half-slim
Interface	Bus Interface	SATA III 6Gb/s
Storage	Flash Type	MLC NAND flash
	Capacity	8GB/16 GB/32 GB/64 GB/128 GB
Operating Environment	Operating Voltage	3.3V±5%
	Operating Temperature	Standard: 0°C (32°F) ~ 70°C (158°F)
		Wide temp.: -40°C (-40°F) ~ 85°C (185°F)
	Storage Temperature	-40°C (-40°F) ~ 85°C (185°F)
	Humidity	0% ~ 95%
	Shock	1500 G, 0.5 ms, 3 axis
	Vibration	20 G (peak-to-peak), 5 Hz ~ 800 Hz (frequency)
Power	Power Consumption (Operation)	1.85 watt(s)
Performance	Power Consumption (Sleep)	0.38 watt(s)
	Sequential Read/Write (CrystalDiskMark)	Read: 530 MB/s; write: 200 MB/s
	4K Random Read/Write (IOmeter)	Read: 70,000 IOPS; write: 50,000 IOPS
	Mean Time Between Failures (MTBF)	2,500,000 hour(s)
	Terabytes Written (TBW)	360 TB
	Drive Writes Per Day (DWPD)	2.6 (3 yrs)
Warranty	Certificate	CE/FCC/BSMI
	Warranty	Three-year Limited Warranty
Note	• Speed may vary due to host hardware, software, usage, and storage capacity.	
	• The workload used to rate DWPD may be different from your actual workload, which may vary due to host hardware, software, usage, and storage capacity.	

Mechanical Dimensions

54.00 ± 0.15mm   4.00 ± 0.15mm

39.80 ± 0.35mm
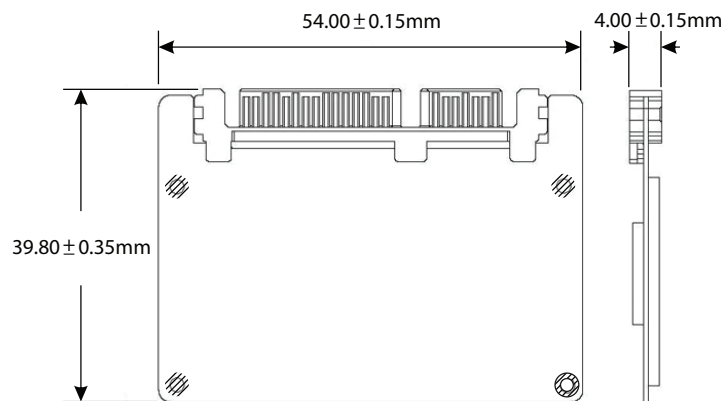
Product specifications are subject to change without notice. Pictures shown may differ from actual products. Total accessible capacity varies depending on operating environment.
Due to the complexity and variety of industrial applications, Transcend cannot guarantee 100% compatibility with all platforms and under all scenarios. For special applications and environments, it is strongly suggested that you contact Transcend beforehand for clarification.

Please feel free to contact us with any special requests you might have.
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