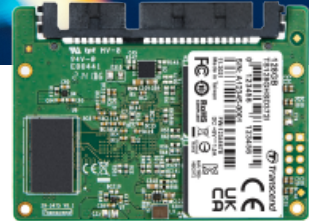**Embedded Solutions**

Half-Slim SSDs

HSD372M & HSD372I

Equipped with the SATA III 6Gb/s interface and a powerful controller, Transcend's HSD372M 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 HSD372I with wide temperature (-40°C ~ 85°C) capabilities to ensure sustained functionality, enhanced endurance and optimal reliability in mission-critical applications.

Hardware Features

- MLC NAND flash
- DDR3 DRAM Cache embedded
- Promised operational reliability in a wide temperature range (from -40°C to 85°C)
- Compliant with RoHS 2.0 standards
- Key components fortified by default with Corner Bond technology

Ordering Information

16GB	TS16GHSD372I
	TS16GHSD372M
32GB	TS32GHSD372I
	TS32GHSD372M
64GB	TS64GHSD372I
	TS64GHSD372M
128GB	TS128GHSD372I
	TS128GHSD372M

Firmware Features

- NCQ command for better performance
- TRIM command for better performance
- Built-in BCH ECC (Error Correction Code) functionality
- Supports S.M.A.R.T. function to conduct health monitoring, analysis, and reporting for storage devices
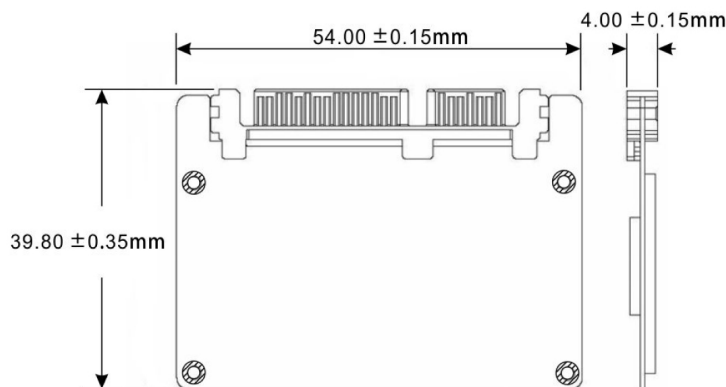- Advanced Garbage Collection

Specifications

Appearance	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)
Interface	Bus Interface	SATA III 6Gb/s
Storage	Flash Type	MLC NAND flash
	Capacity	16 GB / 32 GB / 64 GB / 128 GB
Operating Environment	Operating Voltage	5V±5%
	Operating Temperature	Standard Temp. 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	5% ~ 95%
	Shock	1500 G, 0.5 ms, 3 axis
	Vibration (Operating)	20 G (peak-to-peak), 7 Hz ~ 2000 Hz (frequency)
Power	Power Consumption (Operation)	1.85 watt(s)
	Power Consumption (Sleep)	0.38 watt(s)
Performance	Sequential Read/Write (CrystalDiskMark)	Read: up to 530 MB/s Write: up to 200 MB/s
	4K Random Read/Write (IOmeter)	Read: up to 70,000 IOPS Write: up to 50,000 IOPS
	Mean Time Between Failures (MTBF)	2,500,000 hour(s)
	Terabytes Written (TBW)	up to 360 TBW
	Drive Writes Per Day (DWPD)	2.6 (3 yrs)
Warranty	Certificate	CE / FCC / BSMI / UKCA
	Warranty	Three-year Limited Warranty

Mechanical Dimensions