

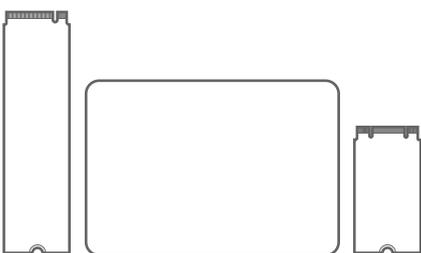
## Embedded Solutions

# Half-Slim SSD

Equipped with a powerful controller, Transcend's SATA III 6Gb/s and SATA II 3Gb/s Half-Slim SSDs deliver outstanding transfer speeds yet are significantly smaller than standard 2.5" form factor drives. Following the MO-297 standard set by JEDEC, these 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.

## Features

- Suitable for wide-temperature applications
- On-chip hardware BCH-ECC engine
- Supports AHCI mode, TRIM command, and NCQ
- Supports DEVSLP mode (HSD370)
- Compliant with JEDEC MO-297
- Specifically designed for mobile devices, such as tablets and notebooks
- 3D NAND flash for high performance and endurance
- Advanced S.M.A.R.T. and software monitoring tools
- Advanced Global Wear-leveling and Block Management for reliability



## Specifications

	HSD450T	HSD370/HSD370I	HSD630
Interface	SATA III 6Gb/s		SATA II 3Gb/s
Flash Type	3D TLC		MLC
Connector	SATA (7+15-pin)		
Form Factor	Half-slim MO-297		
Capacity	32GB-128GB	16GB~256GB	8GB~64GB
Sequential Read*	550 MB/s	550 MB/s	235 MB/s
Sequential Write*	400 MB/s	330 MB/s	85 MB/s
Operating Temperature	0°C~70°C**		
Storage Temperature	-40°C~85°C		
Humidity	0%~95%		
Shock	1500G, 0.5ms, 3 axis		
Vibration	3G, 5Hz to 800Hz (operating) / 5G, 5Hz to 800Hz (non-operating)		
Operating Voltage	5V±5%		
Power Consumption	2.15W (active), 0.6W (idle)	2.8W (active), 0.6W (idle)	1.7W (active), 0.5W (idle)
Dimensions (max.)	54.0 x 39.8 x 4.0mm		
MTBF	1,000,000 hours	1,500,000 hours	1,000,000 hours
Warranty	Three-year Limited Warranty		

\*Maximum performance shown. Performance varies by capacity, user hardware, and system configuration.

\*\*Wide temperature (-40°C~85°C) available by request.

## Ordering Information

HSD450T	TS32GHSD450T	32GB
	TS64GHSD450T	64GB
	TS128GHSD450T	128GB

HSD630	TS8GHSD630	8GB
	TS32GHSD630	32GB
	TS64GHSD630	64GB

HSD370 HSD370I	TS16GHSD370	16GB
	TS16GHSD370I	16GB
	TS32GHSD370	32GB
	TS64GHSD370	64GB
	TS128GHSD370	128GB
	TS256GHSD370	256GB

### Tailored Options Available



Intelligent Power Shield



AES Encryption



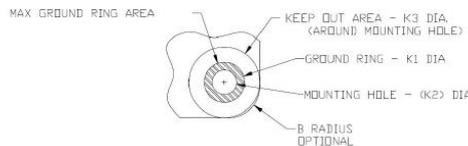
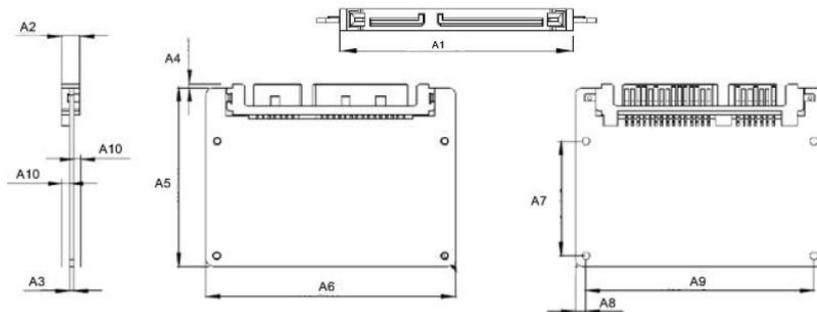
Underfill



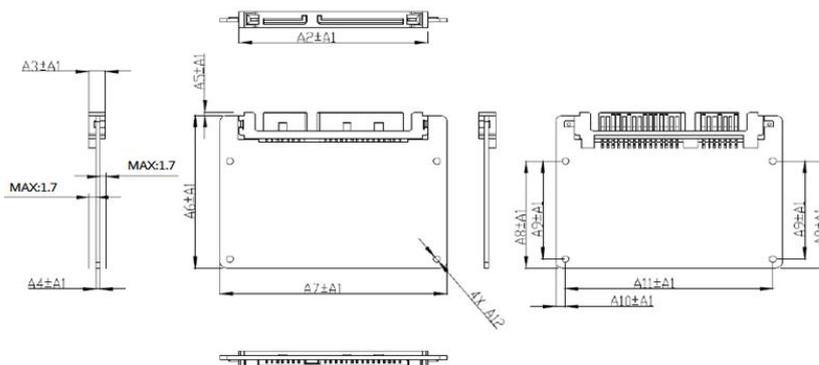
Conformal Coating



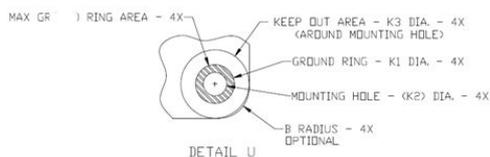
## Mechanical Dimensions



Symbol	Minimum	Normal	Maximum
A1	-	42.73	-
A2	3.85	4.00	4.15
A3	0.90	1.00	1.10
A4	-	0.80	-
A5	-	39.00	-
A6	53.85	54.00	54.15
A7	-	25.00	-
A8	2.15	2.30	2.45
A9	-	49.40	-
A10	-	-	1.87
K1	2.6	-	2.7
K2	1.6	-	1.7
K3	4.45	4.6	4.75



Dimension	Millimeter	Dimension	Millimeter
A1	0.15	A7	54.00
A2	44.93	A8	27.30
A3	4.10	A9	25.00
A4	1.00	A10	2.30
A5	0.80	A11	49.40
A6	39.00	A12	∅1.6



Symbol	Minimum	Normal	Maximum
K1	2.6	-	2.7
K2	1.6	-	1.7
K3	4.45	4.6	4.75

※ Compliant with JEDEC MO-297

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Underfill



Conformal Coating

