Embedded Solutions

Half-Slim SSDs

HSD630

Transcend's SATA II 3Gb/s HSD630 half-slim SSD delivers peak performance at an industrial-grade standard, yet is significantly smaller than standard 2.5" form factor hard disk drives. SATA II 3Gb/s half-slim SSD modules undergo extensive reliability testing to ensure the utmost in quality, perfect for truly demanding applications, such as industrial control systems, medical equipment, mobile devices, and POS terminals.

Hardware Features

- Compliant with RoHS standards
- Compliant with JEDEC MO-297
- DRAM Cache embedded
- Supports Transcend Scope Pro software

Firmware Features

- Built-in ECC (Error Correction Code) functionality
- Advanced Garbage Collection
- Security Command
- Advanced Global Wear-Leveling and Block management for reliability
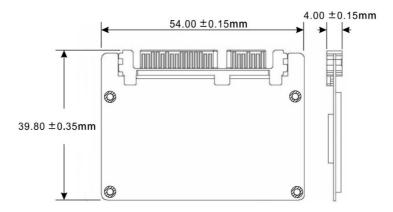- Power-saving partial and slumber modes

Ordering Information

8GB	TS8GHSD630

Specifications

Appearance	Dimensions	54 mm x 39.8 mm x 4.1 mm (2.13" x 1.57" x 0.16")
	Weight	11 g (0.39 oz)
	mSATA Type	MO-297
	Pin Count	7+15 pin
	Form Factor	Half-slim
Interface	Bus Interface	SATA II 3Gb/s
Storage	Flash Type	MLC NAND flash
	Capacity	8 GB
Operating Environment	Operating Voltage	5V±5%
	Operating Temperature	Standard 0°C (32°F) ~ 70°C (158°F)
	Storage Temperature	-40°C (-40°F) ~ 85°C (185°F)
	Humidity	0% ~ 95%
	Shock	1500 G, 0.5 ms, 3 axis
	Vibration (Operating)	3 G (peak-to-peak), 5 Hz ~ 800 Hz (frequency)
	Vibration (Non-operating)	5 G (peak-to-peak), 5 Hz ~ 800 Hz (frequency)
Power	Power Consumption (Operation)	0.88 watt(s)
	Power Consumption (Sleep)	0.26 watt(s)
Performance	Sequential Read/Write (CrystalDiskMark, max.)	Read: up to 95 MB/s Write: up to 23 MB/s
	4K Random Read/Write (IOmeter, max.)	Read: up to 12,600 IOPS Write: up to 2,190 IOPS
	Mean Time Between Failures (MTBF)	1,000,000 hour(s)
	Terabytes Written (Max.)	15 TBW
Warranty	Certificate	CE / FCC / BSMI
	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.