

ASDHS-MLC Series

Half-Slim SATA 6 Gb/s SSD with MLC NAND Flash



Features

- SATA 6 Gb/s interface, backward compatible to SATA 3 Gb/s and SATA 1.5 Gb/s
- JEDEC mechanical specification MO-297
- Sustained read up to 350 MB/s
- Sustained write up to 100 MB/s
- 64GB capacity
- Multi-Level Cell NAND Flash with Toggle Mode Technology
- Shock and vibration resistant



Toggle Mode Technology



Shock & Vibration



SATA Interface



Flash Security ID

Specifications

Physical

Capacity	64GB
Flash Components	Multi-Level Cell (MLC) NAND
Interface	SATA 6 Gb/s
Form Factor	Half-Slim (JEDEC MO-297) form factor
Dimensions	54.0 x 40.0 x 3.5 mm (L x W x H)
Weight:	20 g (max.)

Performance

Bandwidth	SATA 6 Gb/s
	- Sustained read up to 350 MB/s - Sustained write up to 100 MB/s
Read and Write IOPS	SATA 3 Gb/s
	- Sustained read up to 220 MB/s - Sustained write up to 100 MB/s
Power On to Ready	SATA 6 Gb/s
	- Random 4KB Reads: up to 15,000 IOPS - Random 4KB Writes: up to 6,000 IOPS
PCMark Vantage	SATA 3 Gb/s
	- Random 4KB Reads: up to 15,000 IOPS - Random 4KB Writes: up to 5,000 IOPS
Benchmark HDD Score	Power On to Ready
	<1.0 sec
PCMark Vantage	PCMark Vantage
	- Up to 35,000 (SATA 6 Gb/s)
Benchmark HDD Score	Benchmark HDD Score
	- Up to 25,000 (SATA 3 Gb/s)

Environmental

Operating Temperature	0°C to 70°C
Storage Temperature	-40°C to 85°C
Shock	1,500 G, 0.5 ms
Vibration	- Operating: 7~800Hz, 2.17 Grms
	- Non-operating: 7~800Hz, 3.08 Grms
Certifications	UL, CE, RoHS, BSMI, Microsoft WHQL

Compatibility

SATA	- SATA Revision 3.0 compliant: compatible with SATA 1.5 Gb/s, 3 Gb/s & 6 Gb/s interface - ATA/ATAPI- 8 compliant - SSD enhanced S.M.A.R.T. ATA feature set - Native Command Queuing (NCQ) command set - TRIM supported
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Power Requirements

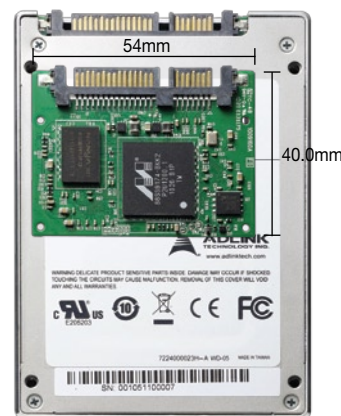
Management	- 5V SATA - SATA interface power management - OS-aware hot plug/removal
Connector	15-pin SATA connector for DC 5V input

Reliability

MTBF	>1,500,000 hours
Life Cycle	Minimum of 5 years of useful life
Power Consumption	- Active: 2W (typical)
	- Idle: 0.36W (typical)

Ordering Information

Model Number	Description/Configuration
ASDHS-MLC64G-CT	Half-Slim SATA 6 Gb/s SSD M2S series 64G, MLC type, (0°C~+70°C)



2.5" and Half-Slim SSD form factor comparison