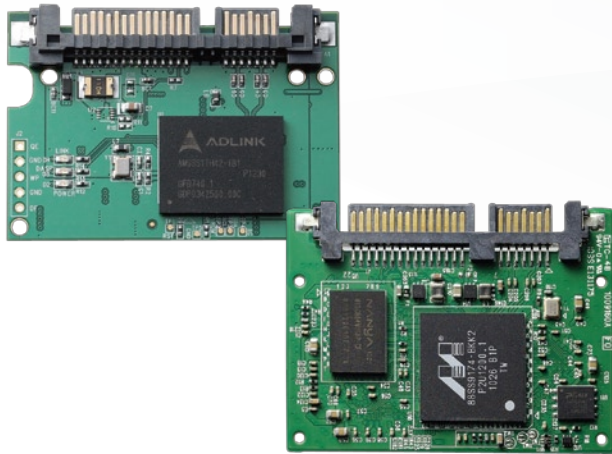


# ASDHS-MLC/MA2/HA2 Series Half-Slim SATA SSD with MLC NAND Flash



## Features

- JEDEC mechanical specification MO-297
- Sustained read up to 350 MB/s
- Sustained write up to 170 MB/s
- 16, 32, 64GB capacity
- Toshiba 24nm MLC Toggle NAND Flash
- Shock and vibration resistant

## Specifications

### Physical

Capacity	MLC : 32, 64GB SLC mode : 16, 32GB
Flash Components	Multi-Level Cell (MLC) NAND/ SLC mode NAND
Interface	SATA 6Gb/s (ASDHS-MLC) SATA 3Gb/s (ASDHS-MA2/ HA2)
Form Factor	Half-Slim (JEDEC MO-297) form factor
Dimensions	39 x 54 x 4 mm (L x W x H)
Weight:	10 g ( max.)

### Performance

Bandwidth	SATA 6 Gb/s (ASDHS-MLC64G-C2) - Sustained read up to 350 MB/s - Sustained write up to 170 MB/s
Read and Write IOPS	SATA 6 Gb/s (ASDHS-MLC64G-C2) - Random 4KB Reads: up to 48,000 IOPS - Random 4KB Writes: up to 38,000 IOPS
Power On to Ready	<1.0 sec

### Environmental

Operating Temperature	Commercial: 0°C to 70°C Industrial: -40°C to 85°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

### Compatibility

SATA	- SATA Revision 3.0 compliant: compatible with SATA 1.5 Gb/s, 3 Gb/s & 6 Gb/s interface (ASDHS-MLC) - SATA Revision 2.0 compliant: compatible with SATA 1.5 Gb/s, 3 Gb/s interface (ASDHS-MA2/HA2) - 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	SLC mode 2M hours, MLC 1.5M hours
Long Life Support	Minimum of 3 years of useful life

## Ordering Information

Model Number	Description/Configuration
<b>ASDHS-MLC64G-C2</b>	Half-Slim 64GB SATA 6Gb/s SSD series, MLC type, CT(0°C~+70°C)
<b>ASDHS-MA2032-ET</b>	Half-Slim 32GB, 24nm MLC, ET (-40°C~+85°C)
<b>ASDHS-MA2064-ET</b>	Half-Slim 64GB, 24nm MLC, ET (-40°C~+85°C)
<b>ASDHS-HA2016-ET</b>	Half-Slim 16GB, 24nm SLC mode, ET (-40°C~+85°C)
<b>ASDHS-HA2032-ET</b>	Half-Slim 32GB, 24nm SLC mode, ET (-40°C~+85°C)

## Dimensions

