

# ASD25-MLC Series

2.5" SATA 6 Gb/s SSD with MLC NAND Flash



## Features

- Sustained read up to 400 MB/s
- Sustained write up to 300 MB/s
- Capacity: 64, 128, 256 GB
- SATA 6 Gb/s interface
- Toshiba 32nm MLC NAND flash
- Industrial Temperatures: -40°C~85°C
- Shock and vibration resistant



## Specifications

### Physical

Capacity	64, 128, 256 GB
Flash Components	Multi-Level Cell (MLC) NAND
Interface	SATA 6 Gb/s
Form Factor	2.5" form factor
Dimensions	100 x 68.85 x 9.5mm (L x W x H)
Weight	80 g (with case)

### Performance

Bandwidth	64GB:	
	- Sustained read up to 350 MB/s	
	- Sustained write up to 95 MB/s	
128GB:	- Sustained read up to 370 MB/s	
	- Sustained write up to 185 MB/s	
	256GB	
- Sustained read up to 400 MB/s	- Sustained write up to 300 MB/s	
	Read and Write IOPS	
	64GB	
- Random 4KB Read: up to 15,000 IOPS	- Random 4KB Write: up to 5,500 IOPS	
128GB	- Random 4KB Read: up to 20,000 IOPS	- Random 4KB Write: up to 14,000 IOPS
256GB	- Random 4KB Read: up to 17,000 IOPS	- Random 4KB Write: up to 11,000 IOPS
Power on to ready	<1.0 sec	
PCMark Vantage	64GB: 31,000	
Benchmark HDD Score	128GB: 33,000	
	256GB: 31,000	

### 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: 7-800 Hz, 2.17 Grms
	- Non-operating: 7-800 Hz, 3.08 Grms
Certifications	UL, CE, RoHS, 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 SMART ATA feature set
	- Native Command Queuing (NCQ) command set
	- TRIM supported

### 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
Long Life Support	Minimum of 5 years useful life

## Ordering Information

Model Number	Description/Configuration
ASD25-MLC64G-ET	2.5" 64GB SATA 6 Gb/s SSD series, MLC type, (-40°C~85°C)
ASD25-MLC128G-ET	2.5" 128GB SATA 6 Gb/s SSD series, MLC type, (-40°C~85°C)
ASD25-MLC256G-ET	2.5" 256GB SATA 6 Gb/s SSD series, MLC type, (-40°C~85°C)
ASD25-MLC64G-CT	2.5" 64GB SATA 6 Gb/s SSD series, MLC type, (0°C~70°C)
ASD25-MLC128G-CT	2.5" 128GB SATA 6 Gb/s SSD series, MLC type, (0°C~70°C)
ASD25-MLC256G-CT	2.5" 256GB SATA 6 Gb/s SSD series, MLC type, (0°C~70°C)

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