

ASD18-MLC Series

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

Features

- Sustained read up to 480 MB/s
- Sustained write up to 340 MB/s
- Capacity: 64, 128, 256 GB
- SATA 6 Gb/s interface
- Toshiba 24nm MLC Toggle NAND flash
- Shock and vibration resistant



Specifications

Physical

Capacity	64, 128 GB
Flash Components	Multi-Level Cell (MLC) NAND
Interface	SATA 6 Gb/s
Form Factor	1.8" form factor
Dimensions	77.7 x 53.5 x 3.4 mm (L x W x H)
Weight	19 g (without case)

Performance

Bandwidth	64 GB: Sustained read/write up to 380/100 MB/s 128 GB: Sustained read/write up to 480/190 MB/s 256 GB: Sustained read/write up to 480/340 MB/s
Read and Write IOPS	64 GB: Random 4KB read/write up to 50,000/24,000 IOPS 128 GB: Random 4KB read/write up to 65,000/43,000 IOPS 256 GB: Random 4KB read/write up to 65,000/43,000 IOPS
Power On to Ready	<1.0 sec

Environmental

Operating Temperature	Commercial: 0°C to +70°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
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Power Requirements

Management	3.3V micro SATA SATA interface power management OS-aware hot plug/removal
Connector	9-pin SATA connector for DC 3.3V input

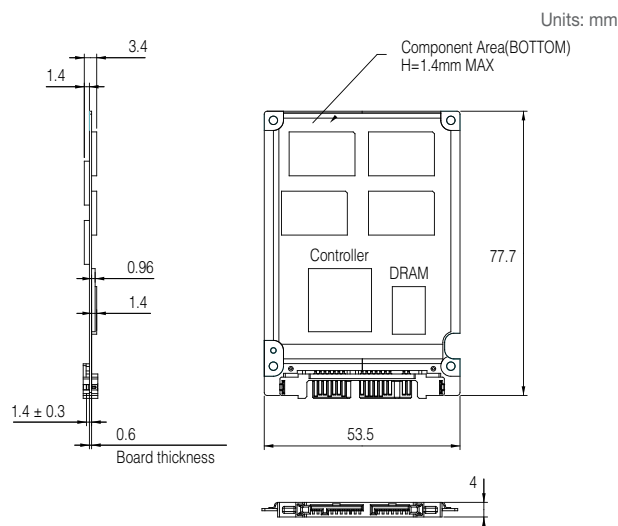
Reliability

MTBF	> 1,500,000 hours
Life Cycle	Minimum of 3 years useful life

Ordering Information

Model Number	Description/Configuration
ASD18-MLC64G-C2	1.8" Micro SATA 6 Gb/s SSD 64 GB, MLC type, (0°C~+70°C)
ASD18-MLC128G-C2	1.8" Micro SATA 6 Gb/s SSD 128 GB, MLC type, (0°C~+70°C)
ASD18-MLC256G-C2	1.8" Micro SATA 6 Gb/s SSD 256 GB, MLC type, (0°C~+70°C)

Dimensions



Mouser Electronics

Authorized Distributor

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