

ASDMS-MLC Series

mSATA SATA 6 Gb/s SSD with
MLC NAND Flash

SSDs

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Features

- Sustained read up to 480 MB/s
- Sustained write up to 390 MB/s
- Capacity: 32, 64, 128, 256GB
- SATA 6 Gb/s interface
- Toshiba 19/ 24nm MLC Toggle NAND Flash
- Shock and vibration resistant
- High IOPS

Specifications

Physical

Capacity	32, 64, 128, 256GB
Flash Components	Multi-Level Cell (MLC) NAND
Interface	SATA 6Gb/s
Form Factor	mSATA (MO-300) form factor
Dimensions	50.8 (L) x 29.8 (W) x 3.40 mm (H)
Weight	10 g (Max.)

Performance

Bandwidth	32 GB: Sustained read/write up to 300/70 MB/s 64 GB: Sustained read/write up to 440/150 MB/s 128 GB: Sustained read/write up to 480/300 MB/s 256 GB: Sustained read/write up to 480/390 MB/s
Read and Write IOPS	32 GB: Random 4KB read/write up to 40,000/19,000 IOPS 64 GB: Random 4KB read/write up to 61,000/34,000 IOPS 128 GB: Random 4KB read/write up to 65,000/61,000 IOPS 256 GB: Random 4KB read/write up to 46,000/26,000 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	1,500G/0.5msec
Vibration	Operation: 7~800Hz, 2.17G (RMS) Non-operation: 7~800Hz, 3.08G (RMS)
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 mSATA SATA interface power management OS-aware hot plug/removal
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Reliability

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

Ordering Information

Model Number	Description/Configuration
ASDMS-MLC32G-CT	mSATA SATA 6 Gb/s SSD 32 GB, MLC type, (0°C~+70°C)
ASDMS-MLC64G-CT	mSATA SATA 6 Gb/s SSD 64 GB, MLC type, (0°C~+70°C)
ASDMS-MLC128G-CT	mSATA SATA 6 Gb/s SSD 128 GB, MLC type, (0°C~+70°C)
ASDMS-MLC256G-CT	mSATA SATA 6 Gb/s SSD 256 GB, MLC type, (0°C~+70°C)

Dimensions

