

ASD26-MLC/MA2/HA2 Series

2.5" SATA SSD with MLC
NAND Flash



Features

- Sustained read up to 480 MB/s
- Sustained write up to 410 MB/s
- Capacity: 32, 64, 128, 256, 512 GB
- SATA 6 Gb/s interface (ASD26-MLC)
SATA 3 Gb/s interface (ASD26-MA2/ HA2)
- Toshiba 24nm MLC/SLC model Toggle NAND flash
- High IOPS (ASD26-MLC)
- Shock and vibration resistant

Specifications

Physical

Capacity	MLC 32, 64, 128, 256, 512GB SLC mode 16,32GB
Flash Components	Multi-Level Cell (MLC) NAND
Interface	SATA 6 Gb/s & SATA 3 Gb/s
Form Factor	2.5" form factor
Dimensions	100 x 68.85 x 9.5mm (L x W x H)
Weight	80 g

Performance

Bandwidth	ASD26-MLC 32 GB: Sustained read/write up to 300/70 MB/s 64 GB: Sustained read/write up to 440/160 MB/s 128 GB: Sustained read/write up to 480/200 MB/s 256 GB: Sustained read/write up to 480/340 MB/s 512 GB: Sustained read/write up to 480/410 MB/s ASD26-MA2 32 GB: Sustained read/write up to 190/40 MB/s 64 GB: Sustained read/write up to 190/75 MB/s ASD26-HA2 16/32 GB: Sustained read/write up to 190/100 MB/s
Read and Write IOPS	ASD26-MLC 32 GB: Random 4KB read/write up to 40,000/19,000 64 GB: Random 4KB read/write up to 54,000/41,000 128 GB: Random 4KB read/write up to 68,000/47,000 256 GB: Random 4KB read/write up to 68,000/63,000 512 GB: Random 4KB read/write up to 51,000/26,000 ASD26-MA2 32/64 GB: Random 4KB read/write up to 3,400/420 ASD26-HA2 16/32 GB: Random 4KB read/write up to 3,900/660

Environmental

Operating Temperature	Commercial: 0°C to +70°C Extreme Rugged: -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, BSMI, Microsoft WHQL

Compatibility

SATA	SATA Revision 3.0 compliant: compatible with SATA 1.5 Gb/s, 3 Gb/s & 6 Gb/s interface (ASD26-MLC) SATA Revision 2.0 compliant: compatible with SATA 1.5 Gb/s, 3 Gb/s interface (ASD26-MA2/ HA2) ATA/ATAPI- 8 compliant SSD enhanced SMART ATA feature set Native Command Queuing (NCQ) command set TRIM supported
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Note: All specifications are subject to change without further notice.

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
Life Cycle	Minimum of 3 years useful life

Ordering Information

Model Number	Description/Configuration
ASD26-MLC32G-CT	2.5" SATA 6 Gb/s SSD 32 GB, MLC type, (0°C~+70°C)
ASD26-MLC64G-CT	2.5" SATA 6 Gb/s SSD 64 GB, MLC type, (0°C~+70°C)
ASD26-MLC128G-CT	2.5" SATA 6 Gb/s SSD 128 GB, MLC type, (0°C~+70°C)
ASD26-MLC256G-CT	2.5" SATA 6 Gb/s SSD 256 GB, MLC type, (0°C~+70°C)
ASD26-MLC512G-CT	2.5" SATA 6 Gb/s SSD 512 GB, MLC type, (0°C~+70°C)
ASD26-MA2032-ET	2.5" SATA 3 Gb/s SSD, 32GB, 24nm MLC, (-40°C~+85°C)
ASD26-MA2064-ET	2.5" SATA 3 Gb/s SSD, 64GB, 24nm MLC(-40°C~+85°C)
ASD26-HA2016-ET	2.5" SATA 3 Gb/s SSD, 16GB, 24nm SLC mode, (-40°C~+85°C)
ASD26-HA2032-ET	2.5" SATA 3 Gb/s SSD, 32GB, 24nm SLC mode, (-40°C~+85°C)

Dimensions

