

# ASD26-MT1 ET Series

2.5" SATA 6Gb/s SSD with 19nm Toggle MLC NAND Flash



## Features

- Sustained read up to 400 MB/s
- Sustained write up to 400 MB/s
- Capacity: 32, 64, 128, 256, 512 GB
- SATA 6Gb/s interface
- 19nm Multi-level cell NAND Flash with Toggle Mode technology
- Shock and vibration resistant
- Marvell 88SS9187 controller

## Specifications

### Physical

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

### Performance

Bandwidth (to be update)	<b>512GB ET</b>
	Sustained read up to 400 MB/s
	Sustained write up to 400 MB/s
	<b>256GB ET</b>
	Sustained read up to 400 MB/s
	Sustained write up to 400 MB/s
	<b>128GB ET</b>
	Sustained read up to 400 MB/s
	Sustained write up to 300 MB/s
	<b>64GB ET</b>
	Sustained read up to 400 MB/s
	Sustained write up to 170 MB/s
Read and Write IOPS	<b>32GB ET</b>
	Sustained read up to 300 MB/s
	Sustained write up to 85 MB/s
	<b>512GB ET</b>
	Random 4KB Read: up to 70,000 IOPS
	Random 4KB Write: up to 60,000 IOPS
	<b>256GB ET</b>
	Random 4KB Read: up to 70,000 IOPS
	Random 4KB Write: up to 60,000 IOPS
	<b>128GB ET</b>
	Random 4KB Read: up to 60,000 IOPS
	Random 4KB Write: up to 40,000 IOPS
<b>64GB ET</b>	
Random 4KB Read: up to 56,000 IOPS	
Random 4KB Write: up to 40,000 IOPS	
<b>32GB ET</b>	
Random 4KB Read: up to 40,000 IOPS	
Random 4KB Write: up to 20,000 IOPS	

### 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	FCC, UL, CE, RoHS

## Compatibility

SATA	SATA Revision 3.0 compliant: compatible with SATA 1.5Gb/s, 3Gb/s & 6Gb/s interface ATA/ATAPI- 8 compliant SSD enhanced SMART ATA feature set Native Command Queuing (NCQ) command set TRIM supported 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
Power on to ready	<1.0 sec

## Reliability

MTBF	1,500,000 hours
Long Life Support	Minimum of 5 years useful life

## Ordering Information

Model Number	Description/Configuration
<b>ASD26-MT1512-ET</b>	2.5" 512GB SATA 6Gb/s SSD series, 19nm MLC type, (-40°~85°)
<b>ASD26-MT1256-ET</b>	2.5" 256GB SATA 6Gb/s SSD series, 19nm MLC type, (-40°~85°)
<b>ASD26-MT1128-ET</b>	2.5" 128GB SATA 6Gb/s SSD series, 19nm MLC type, (-40°~85°)
<b>ASD26-MT1064-ET</b>	2.5" 64GB SATA 6Gb/s SSD series, 19nm MLC type, (-40°~85°)
<b>ASD26-MT1032-ET</b>	2.5" 32GB SATA 6Gb/s SSD series, 19nm MLC type, (-40°~85°)

## Dimensions

