



## DuraFlash™

# ME2 | SATA | mSATA SSD

SMART's DuraFlash ME2 mSATA solid state drives offer highly reliable mass storage in a mSATA form factor which is available in both commercial and industrial temperature ranges. Incorporating SMART's proprietary NVMSentry™ firmware along with a best-in-class SSD controller, the ME2 mSATA SSDs offer exceptional performance while providing the flexibility and optionality for mission critical applications.

SMART's mSATA SSDs are offered with Triple-Level Cell (TLC) 3D NAND. They provide enhanced reliability by incorporating on-board error detection and correction, and static and dynamic wear-leveling algorithms to provide reliable operation over the product life.



### Features & Benefits

- AES 256 Encryption and ATA Security Features Commands for Data Security and Data Sanitize
- TCG Opal 2.0 Compliant
- End-to-End Data Path Protection
- 3D NAND Technology with High Endurance
- Support I-Temp (-40°C to +85°C)

### Applications

- Automotive
- Embedded Computing
- Gaming
- Industrial
- Medical
- Transportation

### Product Family Overview

Capacity	Sequential Performance
<b>ME2   SATA   mSATA SSD</b>	
240GB to 1920GB	Up to 560MB/s Read; Up to 520MB/s Write

## Specifications

ME2   SATA   mSATA SSD	
NAND Type	TLC
<b>Performance</b>	
Host Interface Rate (maximum)	SATA 3.0 6Gb/s
Capacities	240GB to 1920GB
Sequential Read (maximum)	Up to 560 MB/s
Sequential Write (maximum)	Up to 520 MB/s
Random Read (maximum)	Up to 70K IOPS
Random Write (maximum)	Up to 80K IOPS
<b>Reliability</b>	
MTBF	> 2,000,000 hours
Endurance (JEDEC Enterprise Workload) <sup>1</sup>	1920GB: 800 TBW 960GB: 410 TBW 480GB: 200 TBW 240GB: 105 TBW
DWPD	0.3
Error Correction	LDPC
<b>Data Security</b>	
Encryption	AES-256, ATA Security Features Commands, TCG OPAL 2.0
<b>Power</b>	
Input Voltage	VCC: 3.3 V ± 5%
<b>Environmental</b>	
Shock	1500 g half-sine, 0.5 msec, 1 shock along each axis, X, Y, Z in each direction
Vibration	20G rms 80-2000Hz, 1.52mm 20-80Hz, 3 axis
Operating Temperature	Commercial: 0°C to +70°C Industrial: -40°C to +85°C
Storage Temperature	-40°C to +85°C
Humidity	40°C, Operation: 90% RH, Storage: 93% RH
<b>Physical</b>	
Length	50.80 mm
Width	29.85 mm
Height	3.80 mm

<sup>1</sup>Endurance is directly related to the User Specific Workload.

## Ordering Information

Part Number	Density
<b>ME2   SATA   mSATA SSD</b>	
<b>Commercial Operating Temperature (0°C to +70°C)</b>	
SRMST1920TCM2A72	1920GB
SRMST960GTCM2A72	960GB
SRMST480GTCM2A72	480GB
SRMST240GTCM2A72	240GB
<b>ME2   SATA   mSATA SSD</b>	
<b>Industrial Operating Temperature (-40°C to +85°C)</b>	
SRMST1920TIM2A72	1920GB
SRMST960GTIM2A72	960GB
SRMST480GTIM2A72	480GB
SRMST240GTIM2A72	240GB



For more information, please visit: [www.smartm.com](http://www.smartm.com)

### Headquarters/North America:

T: (+1) 800-956-7627 • T: (+1) 510-623-1231  
F: (+1) 510-623-1434 • E: [info@smartm.com](mailto:info@smartm.com)

### Latin America:

T: (+55) 11 4417-7200 • E: [sales.br@smartm.com](mailto:sales.br@smartm.com)

### Asia/Pacific:

T: (+65) 6678-7670 • E: [sales.asia@smartm.com](mailto:sales.asia@smartm.com)

### EMEA:

T: (+44) 0 7826-064-745 • E: [sales.euro@smartm.com](mailto:sales.euro@smartm.com)

### Customer Service:

T: (+1) 510-623-1231 • E: [customers@smartm.com](mailto:customers@smartm.com)