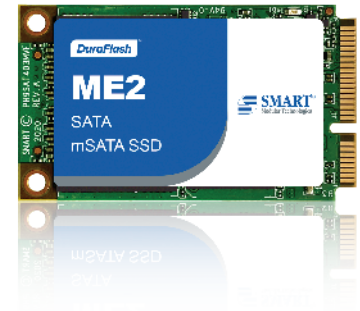




## DuraFlash™

# ME2 | SATA | mSATA SSD

SMART's DuraFlash ME2 mSATA SSDs incorporate the latest generation 3D NAND-technology and SMART Modular's proprietary NVMSentry™ firmware to deliver high performance SSD products with endurance up to one drive writes per day (1 DWPD) for five years. The new ME2 SSDs offer better cost per bit over previous 64-layer and 96-layer NAND generations without sacrificing performance and reliability. Further optimization of the NVMSentry firmware also yields enhancements in read and write consistency over wide ranges of application workloads.



### Features & Benefits

- The Latest Generation 3D NAND Technology
- 1 DWPD For Five Years
- SMART's Proprietary NVMSentry Firmware
- TCG OPAL 2.0 and AES 256 Encryption
- End-to-End Data Path Protection
- 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   2.5" SSD</b>	
240GB to 1920GB	Up to 540MB/s Read; Up to 450MB/s Write
<b>ME2   SATA   M.2 2242 SSD</b>	
240GB to 960GB	Up to 540MB/s Read; Up to 450MB/s Write
<b>ME2   SATA   M.2 2280 SSD</b>	
240GB to 1920GB	Up to 540MB/s Read; Up to 450MB/s Write
<b>ME2   SATA   mSATA SSD</b>	
240GB to 1920GB	Up to 540MB/s Read; Up to 450MB/s Write
<b>ME2   SATA   Slim SATA SSD</b>	
240GB to 1920GB	Up to 540MB/s Read; Up to 450MB/s Write

## Specifications

ME2   SATA   mSATA SSD	
NAND Type	eTLC
<b>Performance</b>	
Host Interface Rate (maximum)	SATA 3.0 6Gb/s
Capacities	240GB to 1920GB
Sequential Read (maximum)	Up to 540 MB/s
Sequential Write (maximum)	Up to 450 MB/s
Random Read (maximum)	Up to 90K IOPS
Random Write (maximum)	Up to 70K IOPS
<b>Reliability</b>	
MTBF	> 2,000,000 hours
Endurance (JEDEC Enterprise Workload) <sup>1</sup>	1920GB: 3330 TBW 960GB: 1671 TBW 480GB: 902 TBW 240GB: 513 TBW
DWPD	1
SafeDATA	-
Error Correction	LDPC
<b>Data Security</b>	
Encryption	AES-256, 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>	
SRMST1920FCM2AC1	1920GB
SRMST960GFCM2AC1	960GB
SRMST480GFCM2AC1	480GB
SRMST240GFCM2AC1	240GB
<b>ME2   SATA   mSATA SSD</b>	
<b>Industrial Operating Temperature (-40°C to +85°C)</b>	
SRMST1920FIM2AC1	1920GB
SRMST960GFIM2AC1	960GB
SRMST480GFIM2AC1	480GB
SRMST240GFIM2AC1	240GB



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