![SMART Modular Technologies logo]

DuraFlash™

ME2 | SATA | Slim SATA SSD

SMART's DuraFlash ME2 Slim SATA 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
- Quality of Service (QoS) with 3 Nines of Latency Consistency
- 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
- Chemical Plants
- Industrial
- Medical
- Oil Refinery
- Transportation

Product Family Overview

Form Factor	Capacity	Sequential Performance
2.5" SSD	240GB to 1920GB	
M.2 2242 SSD	240GB to 960GB	
M.2 2280 SSD	240GB to 1920GB	Up to 540MB/s Read
mSATA SSD	240GB to 1920GB	Up to 460MB/s Write
Slim SATA SSD	240GB to 1920GB	

Specifications

	ME2 | SATA | Slim SATA SSD
NAND Type	eTLC
Performance	
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 460 MB/s
Random Read (maximum)	Up to 77K IOPS
Random Write (maximum)	Up to 70K IOPS
Reliability	
MTBF	> 2,000,000 hours
Endurance (JEDEC Enterprise Workload)[1]	1920GB: 3755 TBW 960GB: 2275 TBW 480GB: 1015 TBW 240GB: 510 TBW
DWPD	1
SafeDATA	-
Error Correction	LDPC
Data Security	
Encryption	AES-256, TCG OPAL 2.0
Power	
Input Voltage	VCC: 3.3 V ± 5%
Environmental	
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
Physical	
Length	36.70 mm
Width	54.00 mm
Height	4.00 mm

[1]Endurance is directly related to the User Specific Workload.

Ordering Information

Part Number	Density
ME2 | SATA | Slim SATA SSD **Commercial Operating Temperature (0°C to +70°C)**	
SRSLM1920FCM2AC3	1920GB
SRSLM960GFCM2AC3	960GB
SRSLM480GFCM2AC3	480GB
SRSLM240GFCM2AC3	240GB
ME2 | SATA | Slim SATA SSD **Industrial Operating Temperature (-40°C to +85°C)**	
SRSLM1920FIM2AC3	1920GB
SRSLM960GFIM2AC3	960GB
SRSLM480GFIM2AC3	480GB
SRSLM240GFIM2AC3	240GB

SMART®
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