DuraFlash™

ME2 | SATA | 2.5" SSD

SMART's DuraFlash ME2 SATA 2.5" solid state drives offer highly reliable mass storage in a SATA 2.5" form factor with 3D NAND technology, and support both commercial and industrial temperature range. Incorporating SMART's proprietary NVMSentry™ firmware along with a best-in-class SSD controller, the ME2 SATA 2.5" SSDs offer exceptional performance while providing the flexibility and optionality for mission critical applications.

The ME2 HE SATA 2.5" SSDs are equipped with SafeDATA™ technology, which adds another layer of protection for data. SafeDATA technology is a robust system of hardware and firmware that have SMART SSDs operate safely during any events of unexpected power loss. It guarantees the end-to-end data integrity and prevents drive corruption due to the loss of critical data during the expected shut down.

Features & Benefits

- 1 DWPD Version Available with ME2 HE
- 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
- SafeDATA Technology as a Standard Feature for ME2 HE (SafeDATA safeguards the integrity, functionality and data of the SSD in the event of sudden power loss.)
- Support I-Temp (-40°C to +85°C)

Applications

- AI
- Data Center
- Industrial
- Networking
- Surveillance

Product Family Overview

Capacity	Sequential Performance
**ME2 SE	SATA	2.5" SSD**	
240GB to 1920GB	Up to 560MB/s Read; Up to 520MB/s Write
**ME2 HE	SATA	2.5" SSD**	
240GB to 1920GB	Up to 560MB/s Read; Up to 520MB/s Write

Specifications

	ME2 SE	ME2 HE
NAND Type	TLC	eTLC
Performance		
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	
Reliability		
MTBF	> 2,000,000 hours	
Endurance (JEDEC Enterprise Workload)[1]	1920GB: 800 TBW 960GB: 410 TBW 480GB: 200 TBW 240GB: 105 TBW	1920GB: 2800 TBW 960GB: 1400 TBW 480GB: 700 TBW 240GB: 350 TBW
DWPD	0.3	1
SafaDATA	-	Standard
Error Correction	LDPC	
Data Security		
Encryption	AES-256, ATA Security Features Commands, TCG OPAL 2.0	
Power		
Input Voltage	VCC: 5 V ± 10%	
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	100 mm	
Width	69.85 mm	
Height	7 mm	

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

Ordering Information

Part Number	Density
**ME2 SE	SATA	2.5" SSD** **Commercial Operating Temperature (0°C to +70°C)**	
SRS251920TCM2B72	1920GB
SRS25960GTCM2B72	960GB
SRS25480GTCM2B72	480GB
SRS25240GTCM2B72	240GB
**ME2 SE	SATA	2.5" SSD** **Industrial Operating Temperature (-40°C to +85°C)**	
SRS251920TIM2B72	1920GB
SRS25960GTIM2B72	960GB
SRS25480GTIM2B72	480GB
SRS25240GTIM2B72	240GB
**ME2 HE	SATA	2.5" SSD** **Commercial Operating Temperature (0°C to +70°C)**	
SRS251920F1M2B72	1920GB
SRS25960GF1M2B72	960GB
SRS25480GF1M2B72	480GB
SRS25240GF1M2B72	240GB
**ME2 HE	SATA	2.5" SSD** **Industrial Operating Temperature (-40°C to +85°C)**	
SRS251920F2M2B72	1920GB
SRS25960GF2M2B72	960GB
SRS25480GF2M2B72	480GB
SRS25240GF2M2B72	240GB

DuraFlash Product Grading System

SE Standard Endurance | **TLC**   **HE** High Endurance | **eTLC**   **PE** Premium Endurance | **eTLC (OP 28%)**   **UE** Ultra Endurance | **pSLC**

SMART® Modular Technologies

For more information, please visit: **www.smartm.com**