



DuraFlash™

ME2 | 2.5" SATA

SMART's DuraFlash ME2 2.5" SATA solid state drives offer highly reliable mass storage in a 2.5" SATA 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 2.5" SATA SSDs offer exceptional performance while providing the flexibility and optionality for mission critical applications.

The ME2 2.5" SATA drives with eTLC version 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 eTLC NAND
- AES 256 Encryption and ATA Security Features Commands for Data Security and Data Sanitize
- End-to-End Data Path Protection
- 3D NAND Technology with High Endurance
- SafeDATA Technology as a Standard Feature for eTLC Version (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)

Product Family Overview

Capacity	Sequential Performance
2.5" SATA	
240GB to 1920GB	Up to 560MB/s Read; Up to 520MB/s Write



Applications

- AI
- Data Center
- Industrial
- Networking
- Surveillance

Specifications

NAND Type	ME2 2.5" SATA	
	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	1920GB: 2800 TBW
	960GB: 410 TBW	960GB: 1400 TBW
	480GB: 200 TBW	480GB: 700 TBW
	240GB: 105 TBW	240GB: 350 TBW
DWPD	0.3	1
SafaData	-	Standard
Error Correction	LDPC	
Data Security		
Encryption	AES-256, ATA Security Features Commands	
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	

¹Endurance is directly related to the User Specific Workload.

Ordering Information

Part Number	Density
2.5" SATA TLC	
Commercial Operating Temperature (0°C to +70°C)	
SRS251920TCM2B71	1920GB
SRS25960GTCM2B71	960GB
SRS25480GTCM2B71	480GB
SRS25240GTCM2B71	240GB
2.5" SATA TLC	
Industrial Operating Temperature (-40°C to +85°C)	
SRS251920TIM2B71	1920GB
SRS25960GTIM2B71	960GB
SRS25480GTIM2B71	480GB
SRS25240GTIM2B71	240GB
2.5" SATA eTLC (SafeDATA)	
Commercial Operating Temperature (0°C to +70°C)	
SRS251920F1M2A71	1920GB
SRS25960GF1M2A71	960GB
SRS25480GF1M2A71	480GB
SRS25240GF1M2A71	240GB
2.5" SATA eTLC (SafeDATA)	
Industrial Operating Temperature (-40°C to +85°C)	
SRS251920F2M2A71	1920GB
SRS25960GF2M2A71	960GB
SRS25480GF2M2A71	480GB
SRS25240GF2M2A71	240GB



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