

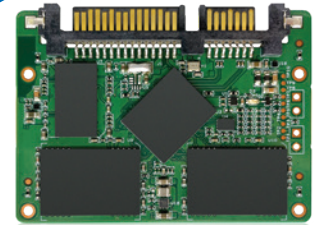


DuraFlash™

ME2 | Slim SATA (MO-297)

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

SMART's Slim SATA 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

- 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
- Support I-Temp (-40°C to +85°C)

Applications

- Automotive
- Chemical Plants
- Industrial
- Medical
- Oil Refinery
- Transportation

Product Family Overview

Capacity	Sequential Performance
Slim SATA (MO-297)	
240GB to 1920GB	Up to 560MB/s Read; Up to 520MB/s Write

Specifications

ME2 Slim SATA (MO-297)	
NAND Type	TLC
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
DWPD	0.3
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	36.70 mm
Width	54.00 mm
Height	4.00 mm

¹Endurance is directly related to the User Specific Workload.

Ordering Information

Part Number	Density
Slim SATA (MO-297)	
Commercial Operating Temperature (0°C to +70°C)	
SRSLM1920TCM2A71	1920GB
SRSLM960GTCM2A71	960GB
SRSLM480GTCM2A71	480GB
SRSLM240GTCM2A71	240GB
Slim SATA (MO-297)	
Industrial Operating Temperature (-40°C to +85°C)	
SRSLM1920TIM2A71	1920GB
SRSLM960GTIM2A71	960GB
SRSLM480GTIM2A71	480GB
SRSLM240GTIM2A71	240GB



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