



DuraFlash™

ME2 | SATA | M.2 2242 SSD

SMART's DuraFlash ME2 SATA M.2 2242 SSDs offer 42mm length 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 M.2 2242 SSDs offer exceptional performance while providing the flexibility and optionality for mission critical applications.

The ME2 SATA M.2 2242 SSDs 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

- 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
- Support I-Temp (-40°C to +85°C)

Applications

- Aerospace
- AI
- HPC
- Medical
- Surveillance

Product Family Overview

Capacity	Sequential Performance
ME2 SATA M.2 2242 SSD	
240GB to 960GB	Up to 560MB/s Read; Up to 500MB/s Write

Specifications

ME2 SATA M.2 2242 SSD	
NAND Type	TLC
Performance	
Host Interface Rate (maximum)	SATA 3.0 6Gb/s
Capacities	240GB to 960GB
Sequential Read (maximum)	Up to 560 MB/s
Sequential Write (maximum)	Up to 500 MB/s
Random Read (maximum)	Up to 60K IOPS
Random Write (maximum)	Up to 75K IOPS
Reliability	
MTBF	> 2,000,000 hours
Endurance	960GB: 410 TBW 480GB: 200 TBW (JEDEC Enterprise Workload) ¹ 240GB: 105 TBW
DWPD	0.3
Error Correction	LDPC
Data Security	
Encryption	AES-256, ATA Security Features Commands, 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	42 mm
Width	22 mm
Height	3.65 mm

¹Endurance is directly related to the User Specific Workload.

Ordering Information

Part Number	Density
ME2 SATA M.2 2242 SSD	
Commercial Operating Temperature (0°C to +70°C)	
SRM24960GTCM2A72	960GB
SRM24480GTCM2A72	480GB
SRM24240GTCM2A72	240GB
ME2 SATA M.2 2242 SSD	
Industrial Operating Temperature (-40°C to +85°C)	
SRM24960GTIM2A72	960GB
SRM24480GTIM2A72	480GB
SRM24240GTIM2A72	240GB



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