



DuraFlash™

ME2 | SATA | M.2 2280 SSD

SMART's DuraFlash ME2 SATA M.2 2280 SSDs offer 80mm 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 2280 SSDs offer exceptional performance while providing the flexibility and optionality for mission critical applications.

The ME2 HE SATA M.2 2280 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

- Aerospace
- AI
- HPC
- Medical
- Surveillance

Product Family Overview

Capacity	Sequential Performance
ME2 SE SATA M.2 2280 SSD	
240GB to 1920GB	Up to 560MB/s Read; Up to 500MB/s Write
ME2 HE SATA M.2 2280 SSD	
240GB to 1920GB	Up to 560MB/s Read; Up to 500MB/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 500 MB/s	
Random Read (maximum)	Up to 60K IOPS	
Random Write (maximum)	Up to 75K 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: 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	80 mm	
Width	22 mm	
Height	3.65 mm	

¹Endurance is directly related to the User Specific Workload.

Ordering Information

Part Number	Density
ME2 SE SATA M.2 2280 SSD Commercial Operating Temperature (0°C to +70°C)	
SRM281920TCM2A72	1920GB
SRM28960GTCM2A72	960GB
SRM28480GTCM2A72	480GB
SRM28240GTCM2A72	240GB
ME2 SE SATA M.2 2280 SSD Industrial Operating Temperature (-40°C to +85°C)	
SRM281920TIM2A72	1920GB
SRM28960GTIM2A72	960GB
SRM28480GTIM2A72	480GB
SRM28240GTIM2A72	240GB
ME2 HE SATA M.2 2280 SSD Commercial Operating Temperature (0°C to +70°C)	
SRM281920F1M2A72	1920GB
SRM28960GF1M2A72	960GB
SRM28480GF1M2A72	480GB
SRM28240GF1M2A72	240GB
ME2 HE SATA M.2 2280 SSD Industrial Operating Temperature (-40°C to +85°C)	
SRM281920F2M2A72	1920GB
SRM28960GF2M2A72	960GB
SRM28480GF2M2A72	480GB
SRM28240GF2M2A72	240GB

DuraFlash Product Grading System

SE Standard Endurance | TLC

HE High Endurance | eTLC

PE Premium Endurance | eTLC (OP 28%)

UE Ultra Endurance | pSLC



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

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