



## M400 | SATA | Slim SATA SSD

SMART Modular's M400 Slim SATA 2.5" SSDs are designed for demanding enterprise and industrial applications including servers, networking, and storage systems. It supports AES-256 hardware encryption and ATA security features as a Self-Encrypting Drive (SED), and integrates seamlessly into host systems without BIOS or driver modifications.

Built with Single Event Upset (SEU) protection for enhanced data integrity, the M400 helps safeguard against data corruption caused by radiation or voltage fluctuations in harsh environments. It also supports SMART's NVMSentry™ firmware customization services—offering tailored features to meet specific customer requirements in reliability-critical deployments.



### Features & Benefits

- 1 DWPD For Five Years
- SEU Mitigation
- SMART's Proprietary NVMSentry Firmware
- Quality of Service (QoS) with 3 Nines of Latency Consistency
- TCG OPAL 2.0 and AES 256 Encryption
- End-to-End Data Path Protection
- Support I-Temp (-40°C to +85°C)

### Applications

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

### Product Family Overview

Form Factor	Capacity	Sequential Performance
2.5" SSD	240GB to 1920GB	
M.2 2242 SSD	240GB to 960GB	
M.2 2280 SSD	240GB to 1920GB	Up to 540MB/s Read
mSATA SSD	240GB to 1920GB	Up to 520MB/s Write
Slim SATA SSD	240GB to 1920GB	

## Specifications

M400   SATA   Slim SATA SSD	
NAND Type	eTLC
<b>Performance</b>	
Host Interface Rate (maximum)	SATA 3.0 6Gb/s
Capacities	240GB to 1920GB
Sequential Read (maximum)	Up to 540 MB/s
Sequential Write (maximum)	Up to 520 MB/s
Random Read (maximum)	Up to 79K IOPS
Random Write (maximum)	Up to 74K IOPS
<b>Reliability</b>	
MTBF	> 2,000,000 hours
Endurance (JEDEC Enterprise Workload) <sup>1</sup>	1920GB: 4237 TBW 960GB: 2114 TBW 480GB: 920 TBW 240GB: 471 TBW
DWPD	1
SafeDATA	-
Error Correction	LDPC
<b>Data Security</b>	
Encryption	AES-256, TCG OPAL 2.0
<b>Power</b>	
Input Voltage	VCC: 5 V ± 10%
<b>Environmental</b>	
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
<b>Physical</b>	
Length	39.00 mm
Width	54.00 mm
Height	4.00 mm

<sup>1</sup>Endurance is directly related to the User Specific Workload.

## Ordering Information

Part Number	Density
<b>M400   SATA   Slim SATA SSD</b>	
<b>Commercial Operating Temperature (0°C to +70°C)</b>	
SRSLM1920FCM2AJ1	1920GB
SRSLM960GFCM2AJ1	960GB
SRSLM480GFCM2AJ1	480GB
SRSLM240GFCM2AJ1	240GB
<b>M400   SATA   Slim SATA SSD</b>	
<b>Industrial Operating Temperature (-40°C to +85°C)</b>	
SRSLM1920FIM2AJ1	1920GB
SRSLM960GFIM2AJ1	960GB
SRSLM480GFIM2AJ1	480GB
SRSLM240GFIM2AJ1	240GB



For more information, please visit: [www.smartm.com](http://www.smartm.com)

\*Product images are for promotional purposes only. Labels may not be representative of the actual product.

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