



## N200 | SATA | M.2 2242 SSD

SMART's N200 SATA M.2 2242 SSDs provide an economic yet highly reliable mass storage in a M.2 form factor which is available in both commercial and industrial temperature ranges. The N200 product line is a SATA III solid state storage solution that offers excellent sequential read/write performance. It is suitable for embedded applications that require lower drive capacity and utilize the drive for boot up code and OS code storage.

SMART's N200 SATA M.2 2242 SSDs are offered with Triple-Level Cell (TLC) 3D NAND. They provide enhanced reliability by incorporating on-board error detection and correction, and static Wear-Leveling algorithms to provide reliable operation over the product life.



### Features & Benefits

- DRAM-less Controller Design
- Advanced Static and Dynamic Wear-Leveling
- Advanced Error Detection/Correction Circuitry for Superior Data Reliability
- Self-Monitoring Analysis and Reporting Technology (S.M.A.R.T.) Support
- Supports for 48bit LBA Addressing with Larger Maximum Transfer Size

### Applications

- Communications
- Embedded Computing
- Industrial
- Networking
- Personal PC
- POS
- Servers
- Storage

### Product Family Overview

Form Factor	Capacity	Sequential Performance
2.5" SSD	256GB to 1TB	Up to 550MB/s Read Up to 490MB/s Write
M.2 2242 SSD	128GB to 256GB	Up to 550MB/s Read
M.2 2280 SSD	120GB to 128GB	Up to 465MB/s Write
mSATA SSD	32GB to 128GB	Up to 550MB/s Read Up to 360MB/s Write

## Specifications

	N200   SATA   M.2 2242 SSD
NAND Type	TLC
<b>Performance</b>	
Host Interface Rate (maximum)	SATA 3.0 6Gb/s
Capacities	128GB to 256GB
Sequential Read (maximum)	Up to 550 MB/s
Sequential Write (maximum)	Up to 465 MB/s
Random Read (maximum)	Up to 67K IOPS
Random Write (maximum)	Up to 77K IOPS
<b>Reliability</b>	
MTBF	> 1,500,000 hours
Endurance	256GB: 120 TBW
(JEDEC Client Workload) <sup>1</sup>	128GB: 60 TBW
Error Correction	LDPC
<b>Power</b>	
Input Voltage	VCC: 3.3 V ± 5%
<b>Environmental</b>	
Shock	1500 g half-sine, 0.5 msec, 1 shock along each axis, X, Y, Z in each direction
Vibration	20G 80-2000Hz, 1.52mm 20-80Hz, 3 axis
Operating Temperature	Commercial: 0°C to +70°C
Storage Temperature	-40°C to +85°C
Humidity	40°C, Operation: 90% RH, Storage: 93% RH
<b>Physical</b>	
Length	42.0 mm
Width	22.0 mm
Height	3.8 mm

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

## Ordering Information

Part Number	Density
<b>N200   SATA   M.2 2242 SSD</b>	
<b>Commercial Operating Temperature (0°C to +70°C)</b>	
SVM2S46256GNTD1	256GB
SVM2S46128GNTD1	128GB



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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