

# 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

- 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**

Capacity	Sequential Performance
256GB to 1TB	Up to 550MB/s Read Up to 490MB/s Write
32GB to 256GB	Up to 550MB/s Read
	Up to 465MB/s Write
32GB to 128GB	Up to 550MB/s Read Up to 360MB/s Write
	256GB to 1TB 32GB to 256GB

# Specifications

	N200   SATA   M.2 2242 SSD	
NAND Type	TLC	
Performance		
Host Interface Rate (maximum)	SATA 3.0 6Gb/s	
Capacities	32GB to 256GB	
Sequential Read (maximum)	Up to 550 MB/s	
Sequential Write (maximum)	Up to 465 MB/s	
Random Read (maximum)	Up to 61K IOPS	
Random Write (maximum)	Up to 80K IOPS	
Reliability		
MTBF	> 1,500,000 hours	
	256GB: 120 TBW	
Endurance	128GB: 60 TBW	
(JEDEC Client Workload)1	64GB: 30 TBW	
	32GB: 15 TBW	
Error Correction	LDPC	
Power		
Input Voltage	VCC: 3.3 V ± 5%	
Environmental		
Shock	1500 g half-sine, 0.5 msec, 1 shock along each axis,	
SHOCK	X, Y, Z in each direction	
Vibration	20G 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	42.0 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	
N200   SATA   M.2 2242 SSD Commercial Operating Temperature (0°C to +70°C)		
SVM2S46256GNTD1	256GB	
SVM2S46128GNTD1	128GB	
N200   SATA   M.2 2242 SSD Industrial Operating Temperature (-40°C to +85°C)		
SVM2S46128GNTIE1	128GB	
SVM2S46064GNTIE1	64GB	
SVM2S46032GNTIE1	32GB	

SMART Modular Technologies

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

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

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