

# N200 | SATA | 2.5" SSD

SMART's N200 SATA 2.5" solid state drives provide economic yet highly reliable mass storage in a 2.5" SATA 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 SATA 2.5" SSDs are offered with Triple-Level Cell (TLC) 3D NAND. They 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

- 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

## **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	32GB to 256GB	Up to 550MB/s Read
M.2 2280 SSD		Up to 465MB/s Write
mSATA SSD	32GB to 128GB	Up to 550MB/s Read
		Up to 360MB/s Write

## **Applications**

- ATCA Compute Blades
- Distributed Scale-Out Cloud Servers
- Industrial Control
- NAS / SAN Storage Systems
- Printers
- Single-Board Computers for Defense,
  Gaming and Industrial Control Applications
- Telecom and Networking Routers and Switches
- x86 Server-Storage Appliances

# **Specifications**

	N200   SATA   2.5" SSD	
NAND Type	TLC	
Performance		
Host Interface Rate (maximum)	SATA 3.0 6Gb/s	
Capacities	256GB to 1TB	
Sequential Read (maximum)	Up to 550 MB/s	
Sequential Write (maximum)	Up to 490 MB/s	
Random Read (maximum)	Up to 80K IOPS	
Random Write (maximum)	Up to 76K IOPS	
Reliability		
MTBF	> 1,500,000 hours	
Endurance	1TB: 500 TBW	
(JEDEC Client Workload) <sup>1</sup>	256GB: 120 TBW	
Error Correction	LDPC	
Power		
Input Voltage	VCC: 5 V ± 10%	
Environmental		
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	
Physical		
Length	100 mm	
Width	69.85 mm	
Height	7.0 mm	

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

# **Ordering Information**

Part Number	Density	
N200   SATA   2.5" SSD Commercial Operating Temperature (0°C to +70°C)		
SVSAT61024NTD1	1TB	
SVSAT6256GNTD1	256GB	



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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