



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

- 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

- 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

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 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 76K IOPS
Random Write (maximum)	Up to 73K IOPS
Reliability	
MTBF	> 1,500,000 hours
Endurance	1TB: 500 TBW
(JEDEC Client Workload) ¹	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	100.2 mm
Width	69.85 mm
Height	7.0 mm

¹Endurance 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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