

N200 | SATA | mSATA SSD

SMART's N200 mSATA solid state drives provide economic yet highly reliable mass storage in an mSATA 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 mSATA 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 mSATA SSD	
NAND Type	TLC	
Performance		
Host Interface Rate (maximum)	SATA 3.0 6Gb/s	
Capacities	32GB to 128GB	
Sequential Read (maximum)	Up to 550 MB/s	
Sequential Write (maximum)	Up to 360 MB/s	
Random Read (maximum)	Up to 40K IOPS	
Random Write (maximum)	Up to 51K IOPS	
Reliability		
MTBF	> 1,500,000 hours	
	128GB: 60 TBW	
Endurance	120GB: 60 TBW	
(JEDEC Client Workload) ¹	64GB: 30 TBW	
	32GB: 15 TBW	
Error Correction	LDPC	
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	
Operating Temperature	Industrial: -40°C to +85°C	
Storage Temperature	-40°C to +85°C	
Humidity	40°C, Operation: 90% RH, Storage: 93% RH	
Physical		
Length	50.8 mm	
Width	29.85 mm	
Height	4.85 mm	

¹Endurance is directly related to the User Specific Workload.

Ordering Information

Part Number	Density	
N200 SATA mSATA SSD Commercial Operating Temperature (0°C to +70°C)		
SVMST6128GNTD1	128GB	
SVMST6120GNTD1	120GB	
N200 SATA mSATA SSD Industrial Operating Temperature (-40°C to +85°C)		
SVMST6064GNTIE1	64GB	
SVMST6032GNTIE1	32GB	



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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