SMART® Modular Technologies
A PENGUIN SOLUTIONS® BRAND

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.

3D TLC

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

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 39K IOPS
Random Write (maximum)	Up to 50K IOPS
Reliability	
MTBF	> 1,500,000 hours
Endurance (JEDEC Client Workload)[1]	128GB: 60 TBW 120GB: 60 TBW 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 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

[1]Endurance 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

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

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Headquarters/North America:
T: (+1) 800-956-7627 • T: (+1) 510-623-1231
F: (+1) 510-623-1434 • E: info@smartm.com

Latin America:
T: (+55) 11 4417-7200 • E: sales.br@smartm.com

Asia/Pacific:
T: (+65) 6678-7670 • E: sales.asia@smartm.com

EMEA:
T: (+44) 0 7826-064-745 • E: sales.euro@smartm.com

Customer Service:
T: (+1) 510-623-1231 • E: customers@smartm.com