



## 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

- 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

### Product Family Overview

| Form Factor  | Capacity      | Sequential Performance                    |
|--------------|---------------|---|
| 2.5" SSD     | 256GB to 1TB  | Up to 550MB/s Read<br>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<br>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   |
| <b>Performance</b>                                |   |
| 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  |
| <b>Reliability</b>                                |   |
| MTBF  | > 1,500,000 hours   |
| Endurance<br>(JEDEC Client Workload) <sup>1</sup> | 128GB: 60 TBW<br>120GB: 60 TBW<br>64GB: 30 TBW<br>32GB: 15 TBW                    |
| Error Correction                                  | LDPC  |
| <b>Environmental</b>                              |   |
| Shock   | 1500 g half-sine, 0.5 msec, 1 shock along each axis,<br>X, Y, Z in each direction |
| Vibration   | 20G 80-2000Hz, 1.52mm 20-80Hz, 3 axis   |
| Operating Temperature                             | Commercial: 0°C to +70°C<br>Industrial: -40°C to +85°C                            |
| Storage Temperature                               | -40°C to +85°C  |
| Humidity  | 40°C, Operation: 90% RH, Storage: 93% RH  |
| <b>Physical</b>                                   |   |
| Length  | 50.8 mm   |
| Width   | 29.85 mm  |
| Height  | 4.85 mm   |

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

## Ordering Information

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



For more information, please visit: [www.smartm.com](http://www.smartm.com)

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

### Headquarters/North America:

T: (+1) 800-956-7627 • T: (+1) 510-623-1231  
F: (+1) 510-623-1434 • E: [info@smartm.com](mailto:info@smartm.com)

### Latin America:

T: (+55) 11 4417-7200 • E: [sales.br@smartm.com](mailto:sales.br@smartm.com)

### Asia/Pacific:

T: (+65) 6678-7670 • E: [sales.asia@smartm.com](mailto:sales.asia@smartm.com)

### EMEA:

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

### Customer Service:

T: (+1) 510-623-1231 • E: [customers@smartm.com](mailto:customers@smartm.com)