N200 | SATA | M.2 2280 SSD

SMART's N200 SATA M.2 2280 SSDs provide an economic yet highly reliable mass storage in a M.2 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 N200 SATA M.2 2280 SSDs are offered with Triple-Level Cell (TLC) 3D NAND. They provide enhanced reliability by incorporating on-board error detection and correction, and static Wear-Leveling algorithms to provide reliable operation over the product life.

Features & Benefits

- DRAM-less Controller Design
- Double-sided Layout
- 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

- Communications
- Embedded Computing
- Industrial
- Networking
- Personal PC
- POS
- Servers
- Storage

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 Up to 465MB/s Write
M.2 2280 SSD	120GB to 128GB	
mSATA SSD	32GB to 128GB	Up to 550MB/s Read Up to 360MB/s Write

Specifications

	N200	SATA	M.2 2280 SSD
NAND Type	TLC
Performance	
Host Interface Rate (maximum)	SATA 3.0 6Gb/s
Capacities	120GB to 128GB
Sequential Read (maximum)	Up to 550 MB/s
Sequential Write (maximum)	Up to 465 MB/s
Random Read (maximum)	Up to 61K IOPS
Random Write (maximum)	Up to 80K IOPS
Reliability	
MTBF	> 1,500,000 hours
Endurance	128GB: 60 TBW
(JEDEC Client Workload)[1]	120GB: 60 TBW
Error Correction	LDPC
Power	
Input Voltage	VCC: 3.3 V ± 5%
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	80.0 mm
Width	22.0 mm
Height	3.8 mm

[1]Endurance is directly related to the User Specific Workload.

Ordering Information

Part Number	Density
**N200	SATA	M.2 2280 SSD** **Commercial Operating Temperature (0°C to +70°C)**	
SVM2SH6128GNTD1	128GB
SVM2S86120GNTD1	120GB

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

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