



DuraFlash™

N200 | SATA | M.2 2242 SSD

SMART's DuraFlash N200 SATA M.2 2242 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 2242 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

- 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

Capacity	Sequential Performance
N200 SATA M.2 2242 SSD	
128GB to 512GB	Up to 550MB/s Read; Up to 500MB/s Write

Applications

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

Specifications

N200 SATA M.2 2242 SSD	
NAND Type	TLC
Performance	
Host Interface Rate (maximum)	6Gb/s (Backwards compatible to 3Gb/s & 1.5Gb/s)
Capacities	128GB to 512GB
Sequential Read (maximum)	Up to 550MB/s
Sequential Write (maximum)	Up to 500MB/s
Reliability	
Data Reliability	< 1 Non-Recoverable Error in 10 ¹⁶ bits read
Data Retention	10 years >90% life remaining 1 year at the end of life
Endurance (JEDEC Client Workload) ¹	512GB: 425 TBW 256GB: 180 TBW 128GB: 75 TBW
Error Correction	LDPC (Equivalent to 200 bits/4KB)
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
Altitude	24,384 m [80,000 ft]
Physical	
Length	42.0 mm
Width	22.0 mm
Height	3.8 mm

¹Endurance is directly related to the User Specific Workload.



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