

N200, MO-297 Slim SATA

MO-297 slim SATA

SMART Modular Technologies' N200 MO-297 slim SATA solid state drive brings the advantages of non-volatile memory to embedded computing applications. The N200 product provides an economic yet highly reliable mass storage a slim SATA form factor which is available in both commercial and industrial temperature ranges. The slim SATA is available in capacities ranging from 32GB to 256GB. In fixed applications, lower power dissipation can reduce cooling requirements and costs in blade or server environments.

The slim SATA 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. The new slim SATA N200 SATA III offers sequential and random read/write performance in high capacity drives for transaction intensive applications.

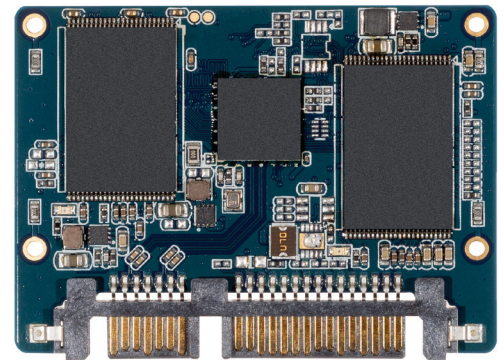
SMART's slim SSDs are offered with Triple Level Cell (TLC) 3D NAND. They provide enhanced reliability by incorporating on-board error detection and correction and static wear leveling algorithms to provide reliable operation over the product life.

Features & Benefits

- Advanced wear leveling – 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

N200 Product Family Overview

| Capacity | Performance Sequential |
|-----------------------------|--|
| MO-297 Slim SATA TLC | |
| 32GB to 256GB | Up to 550MB/s (64GB - 256GB) Up to 300MB/s (32GB) |



Applications

- NAS / SAN storage systems
- x86 server-storage appliances
- Distributed scale-out cloud servers
- Telecom and networking routers and switches
- ATCA compute blades
- Industrial control
- Single board computers for defense, gaming and industrial control applications
- Printers

Specifications

| MO-297 Slim SATA TLC | |
|--|--|
| Performance | |
| Host Interface Rate | 6Gb/s (Backwards compatible to 3Gb/s & 1.5Gb/s) |
| Capacities | 32GB to 256GB |
| Sequential Read (maximum) | Up to 550MB/s (64GB - 256GB) Up to 300MB/s (32GB) |
| Sequential Write (maximum) | Up to 490MB/s (256GB) Up to 450MB/s (128GB) Up to 255MB/s (64GB) Up to 125MB/s (32GB) |
| 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 | 32GB: 17 TBW 64GB: 42 TBW 128GB: 75 TBW 256GB: 180 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° to 70°C Industrial: -40° to 85°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 | 39.0 mm |
| Width | 54.0 mm |
| Height | 4.0 mm |

¹Endurance is directly related to the User Specific Workload

Ordering Information

| Part Number | Density |
|--|---------|
| MO-297 Slim SATA Commercial Operating Temperature | |
| SVSLM6256GNT51 | 256GB |
| SVSLM6128GNT51 | 128GB |
| SVSLM6064GNT51 | 64GB |
| SVSLM6032GNT51 | 32GB |
| MO-297 Slim SATA Industrial Operating Temperature | |
| SVSLM6128GNTI51 | 128GB |
| SVSLM6064GNTI51 | 64GB |
| SVSLM6032GNTI51 | 32GB |

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