

## MO-297 Slim

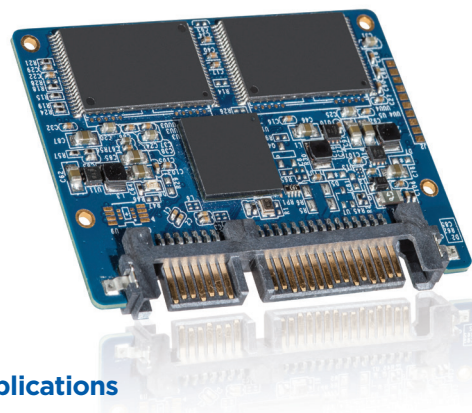
SMART Modular Technologies' Value Series MO-297 Solid state drive brings the advantages of non-volatile memory to embedded computing applications. Similar to SMART's standard Slim, our Value Series provides an economic, highly reliable mass storage that can replace a hard disk drive. The drives are available from 8GB through 480GB. Low power requirements make the Slim SATA SSD ideal for mobile applications, where power savings can result in longer battery life. In fixed applications, lower power dissipation can also reduce cooling requirements and costs in blade or server environments. The Slim SATA Value Series 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 Value Series SATA III offers sequential and random read/write performance in high capacity drives for transaction intensive applications.

SMART's Slim SATA SSDs are offered with multi-level cell (MLC) NAND. They provide enhanced reliability by incorporating onboard error detection and correction and static wear leveling algorithms to provide reliable operation over the product life. S.M.A.R.T. ID reporting provides health information to determine the expected life of the SSD.

### 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
- Improved shock and vibration performance over rotating media



### Applications

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

## Specifications

| MO-297 Slim                        |  |
|------------------------------------|--|
| <b>Performance</b>                 |  |
| Host Interface Rate                | 6Gb/s (Backwards compatible to 3Gb/s & 1.5Gb/s)                              |
| Capacities                         | 8GB to 480GB   |
| Sequential Read (maximum)          | 140GB/s to 450MB/s   |
| Sequential Write (maximum)         | 100GB/s to 190GB/s   |
| Random Read (maximum)              | 45K IOPS   |
| Random Write (maximum)             | 28K IOPS   |
| <b>Reliability</b>                 |  |
| Data Reliability                   | < 1 Non-Recoverable Error in 10 <sup>15</sup> bits read                      |
| Data Retention                     | 10 years >90% life remaining<br>1 year at the end of life                    |
| Endurance <sup>1</sup>             | 2.4 TBW / GB   |
| Error Correction (BCH)             | Up to 43 bits /1 Kbyte sector  |
| <b>Environmental</b>               |  |
| 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]   |
| <b>Physical</b>                    |  |
| Length                             | 54.0 mm  |
| Width                              | 39.0 mm  |
| Height                             | 4.0 mm   |
| Weight (max)                       | < 11.34g [0.40OZ]  |

<sup>1</sup>Endurance for 100% Sequential Workload; endurance is directly related to the User Specific Workload

## Ordering Information

| Part Number        | Capacity |
|--------------------|----------|
| <b>MO-297 Slim</b> |          |
| SV9SLM6B008GJM21   | 8GB      |
| SV9SLM6B016GJM21   | 16GB     |
| SV9SLM6B032GJM21   | 32GB     |
| SV9SLM6B060GLM21   | 60GB     |
| SV9SLM6B064GJM21   | 64GB     |
| SV9SLM6B120GLM21   | 120GB    |
| SV9SLM6B240GLM21   | 240GB    |
| SV9SLM6B480GLM21   | 480GB    |

## Contact information

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