

MO-297 Slim

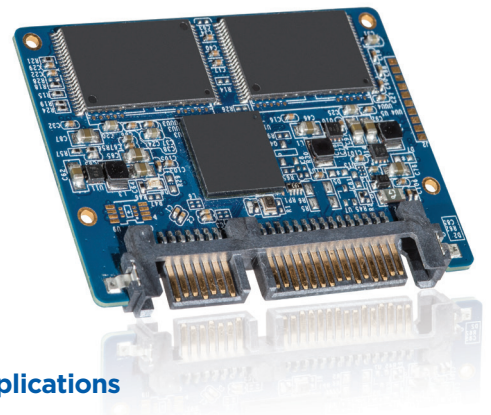
SMART Modular Technologies' Value Series MO-297 Solid state drive brings the advantages of non-volatile memory to embedded computing applications. Similar to SMART's standard Slim, our Value Series provides an economic, highly reliable mass storage that can replace a hard disk drive. The drives are available from 8GB through 64GB. 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	
Performance	
Host Interface Rate	6Gb/s (Backwards compatible to 3Gb/s & 1.5Gb/s)
Capacities	8GB to 64GB
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
Reliability	
Data Reliability	< 1 Non-Recoverable Error in 10 ¹⁵ bits read
Data Retention	10 years >90% life remaining 1 year at the end of life
Endurance ¹	2.4 TBW / GB
Error Correction (BCH)	Up to 43 bits /1 Kbyte sector
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	54.0 mm
Width	39.0 mm
Height	4.0 mm
Weight (max)	< 11.34g [0.40OZ]

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

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