

Memory Modules

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XceedLite SATA Solid-State Drives

SMART Modular Technologies' XceedLite SATA SSD product line offers the industry's lowest power consumption for rugged, low cost data storage applications. Ideally suited for HDD replacement in systems that require high reliability storage in a low profile (H-5mm x W-68.9 x L-100.25) package, the industrial grade XceedLite is suited for use as rugged, reliable boot drives in a wide range of communications applications including mobile and embedded computing, medical, automotive, and industrial.

The XceedLite features enhanced reliability as a result of advanced on-board error detection as well as correction and comprehensive wear leveling algorithms that provide consistent operation throughout the product life cycle.



XceedLite SATA Specifications

FEATURES

- Capacity range 4GB to 32GB
- Advanced ECC for superior data reliability
- Zero seek time
- Noiseless operation
- Lower profile (5mm) than HDD

Compatibility

- Serial ATA: High-speed serialized AT attachment, revision 1.0a, Serial ATA working group

Performance

- Burst Read/Write: 150MB/sec
- Sustained Read: up to 40MB/sec
- Sustained Write: up to 25MB/sec
- Access time: .2ms (typical)

Physical

- Form factor: 2.5"
- Dimensions (mm): 100.25 (L) x 68.9 (W) x 5 (H)
- Weight: 0.1kg (16GB)

Environmental

- Operating temperature
 - Industrial grade: 0°C to +70°C
 - Industrial temp: -40°C to +85°C
- Storage temperature: -65°C to +150°C
- Humidity: 5% to 95%
- Operating altitude: up to 80,000 ft.
- Operating shock: 50G peak @ 2ms
- Operating vibration: 15G peak to peak

Power

- Input voltage: 5.0V \pm 5%
- Typical consumption
 - Idle: 60mA
 - Sustained Read/Write: 110mA/130mA

Compliance

CE, UL, EN 55022 Class B, CISPR 22 Class B, AS/NZS 3548 Class B, BSMI CNS 13438 Class B, CAN/CSA-V-3/2001.04 (VCCI), FCC Part 15 Class B, EN 61000-3-2, EN 61000-3-3, IEC 61000-4-2/3/4/5/6/8/11.

Reliability

- MTBF: >2 million operating hours
- EDC/ECC: 32-bit Reed-Solomon
- Bit Error Rate (BER) < 10⁻¹⁴
- Built-in power-up self-test (BIT)
- Manual and automatic self-diagnostics
- Data integrity under power-cycling

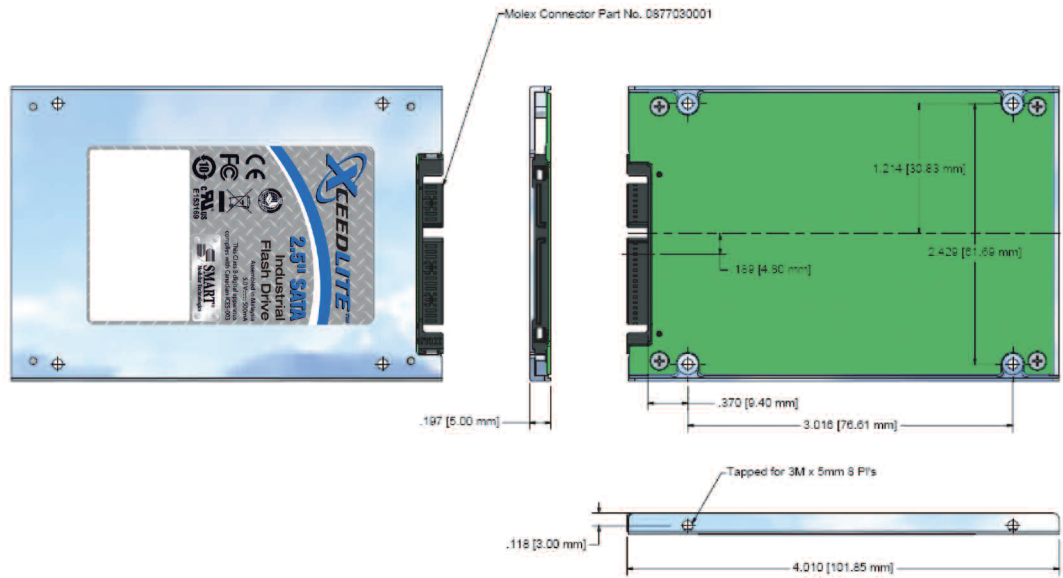
Endurance

- Read unlimited
- 2,500,000 write/erase cycles
- Dynamic wear-leveling
- 10 years data retention

Ordering Information

SMART Part Number	Drive Capacity	Cylinders	Heads	Sectors Track
SG9STL2A4GA01	4GB	7899	16	63
SG9STL2A8GB01	8GB	15916	16	63
SG9STL2A16GB01	16GB	16383	16	63
SG9STL2A32GB01	32GB	16383	16	63

XceedLite Diagram



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