

Cicada

KEY FEATURES

- Enterprise Triple-Level Cell NAND Flash
- SSD Controller: SMI SM2271AB
- Capacities up to 7.68TB
- Serial ATA Revision 3.1 fully compliant
- Compatible with SATA 1.5 Gb/s, 3 Gb/s and 6 Gb/s interface rates
- SSD Enhanced SMART ATA feature set
- Native Command Queuing (NCQ)
- Low Power Management: DIPM/HIPM mode/Device Sleep (DevSleep)
- Power Loss Protection (PLP)
- Advanced Flash Management
 - Static and Dynamic Wear Leveling
 - Error correction code (ECC)
 - Secure Erase
 - Write Protect
- 2.5" SSD Form Factor
- RoHS Compliant



Built with a SMI SM2271AB controller, the Unigen Cicada family of 2.5" Enterprise SSDs are ideal for energy-efficient computing, reducing access times, and provides a durable alternative to conventional hard disc drives with superior shock resistance. The proprietary space manager architecture in the controller maximizes read/write data rate performance to and from the host and flash memory, eliminating firmware delays during sector read and write operations. The SMI SM2271AB flash processor, combined with tailored firmware, provides complete ATA disk emulation, which ensures complete compatibility with a wide range of operating systems. Offered in multiple capacities from 240GB to 7.68TB, Cicada provides a low-latency SSD option for a variety of enterprise workloads.

PRODUCT SPECIFICATIONS

Product Family	Description
Form Factor	2.5"
Dimensions	69.85 x 100.2 x 7.00 mm
Interface	SATA III, 6.0Gbps
Storage Capacity	240GB, 480GB, 960GB, 1.96TB, 3.84TB, 7.68TB
NAND Flash Type	Enterprise 3D TLC

Operating Environment	Description
Operating Temperature	Wide: -40°C ~ 85°C Commercial: 0°C ~ 70°C
Storage Temperature	-40°C ~ 85°C
Non-Operating Humidity	5% ~ 90%
Shock	1000G, Duration 0.5ms, half sine wave non-operating
Vibration	2.17 Grams (5-700 Hz)

Power	Description
Operating Voltage	3.3V ± 5%
Power Consumption	< 2.0W

Performance	Description
Sequential Read/Write (max)	Read: 560 MB/s Write: 535 MB/s
4K Random Read/Write (max)	Read: 99,000 Write: 86,000
Endurance	1 DWPD (7% OP), 3 DWPD (28% OP)
Mean Time Before Failure (MTBF)	≧2,000,000 hrs

ORDERING INFORMATION

Unigen Part Number	Capacity	Form Factor
UB88S10240HEAT1-JKJ1-UGN	240GB	2.5"
UB88S10480HEAT1-JKJ1-UGN	480GB	2.5"
UB88S10960HEAT1-JKJ1-UGN	960GB	2.5"
UB88S1001T9EAT1-JKJ1-UGN	1.92TB	2.5"
UB88S1003T8EAT1-JKJ1-UGN	3.84TB	2.5"
UB88S1007T6EAT1-JKJ1-UGN	7.68TB	2.5"