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Genesis T-Series Enterprise Solid State Drives (SSDs)

Anobit's Genesis T-Series drives are high-end, enterprise-class Solid State Drives (SSDs) based on commercial 25nm MLC (two-bits-per-cell) NAND flash that feature Anobit's patented MSP™ (Memory Signal Processing) technology, which dramatically improves the performance and endurance of standard MLC NAND flash.

The Genesis T-Series 2.5 inch small form factor (SFF) SATA 3.0 6Gb/s drives deliver unprecedented performance of over 70,000 IOPS (4kb) random read, compared to less than 1,000 IOPS for traditional mechanical drives. Combined with their very low power consumption, Anobit's Genesis T-Series SSDs deliver an impressive 200 times more IOPS per watt.

Maximized endurance, unparalleled performance and reliability, and an astounding cost reduction make the Genesis T-series SSDs the ultimate choice for highly demanding enterprise storage environments.

Anobit's MSP™-powered Genesis T-series enterprise-class SSDs enable the use of commercial-grade MLC NAND flash within the most endurance- and performance intensive enterprise-class applications.

Key Features

Endurance	• Up to 4 TB random data per day for 5 years • Over 50,000 read/write cycles
Performance	• Unprecedented 70,000 Read IOPS
Reliability	• > 2M hours MTBF (Mean Time Between Failures) • End-to-end data protection
Cost	• Significant reduction in cost-per-bit • Very low power IOPS per watt

MSP™ Technology

Anobit's patented MSP™ (Memory Signal Processing) technology which extends more than 20 times the standard MLC endurance from approximately 3,000 read/write cycles to over 50,000 cycles, makes MLC technology suitable for high-duty cycle applications. Anobit's MSP technology is the first technology to simultaneously achieve the low latencies and high endurance of SLC NAND combined with the cost and density benefits of MLC NAND.

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Genesis T-Series SSD Specifications

Capacity 100 GB, 200 GB, 400 GB and 800* GB	**Form factor** 2.5 inch SFF-8221
Interface SATA 3.0	**Compatability** SATA 6Gb/s, SATA 3Gb/s & SATA 1.5Gb/s ATA/ATPI-7 SATA revision 2.6 DoD 5220.22-M / NSA 130-2 AFSSI 5020 Sanitization SMART ATA feature set Native Command Queuing command (NCQ)
Technology MLC 25nm NAND with MSP™ Technology	
Write Endurance** 400 GB: 4 TB/day for 5 years	
Sector size 512, 520 and 528 bytes	
MTBF (Mean Time Between Failures) > 2 Million hours	**Hot Removal** No data loss using Super-Caps
Sequential Performance 400 GB Read > 510 MB/s Write > 510 MB/s	**Random Performance 400 GB**** Random Read 70,000 IOPS (4 KB) Random Write 40,000 IOPS (4 KB)
Bit Error Rate Uncorrectable bit error rate (UBER) < 1 sector per 10^{17} bits read	**Operating Environment** Operating: 0° C to 60° C Non-operating: -40° C to 80° C
Power Consumption 400 GB Power Active (Typ.): 6 Watt Power Idle: 2.8 Watt	**Vibration** Operating: 2.17 GRMS (5 - 500 Hz) Non-operating: 3.08 GRMS (5 - 500 Hz)
Operating Shock 3G 11mSec half sine	**Weight** 180 g / 0.40 lb
Physical Dimensions 100 x 70 x 15 mm / 3.94 x 2.76 x 0.59 in (l x h x w)	

* Available in 2012.

** For fully random non-compressible data.

About Anobit

Anobit provides flash storage solutions for the Enterprise and Mobile markets. It's MSP™ (Memory Signal Processing) technology significantly improves the endurance, performance and cost of flash storage products and systems. Anobit's products are used by world leading flash manufacturers, consumer electronics vendors and storage system providers.

Anobit, 8 Hasadnaot St., P.O.Box 12147, Herzliya Pituach 46728, Israel | Tel: +972 9 954 9560 | Fax: +972 9 954 9561 | info@anobit.com | **www.anobit.com**