6Gb/s SATA Enterprise 2.5" SSDs

CloudSpeed Ultra™ SATA SSDs

Cost-effective storage for mixed-use workloads with high performance, endurance and superior reliablity.

Features

- Guardian Technology™ Platform
- Up to 5x Better Endurance than Client MLC SSDs
- Powerful Error Correction and Detection
- Consistent Performance Over Warranted Lifetime
- High-Reliability Backup Power Circuitry
- Data Path Protection
- Data Fail Recovery
- Thermal Management
- Comprehensive S.M.A.R.T. Attributes

Mixed-Use Application Workloads

- On-Line Transaction Processing (OLTP) Databases
- Financial Transactions
- E-Commerce
- SQL Logging
- Collaboration
- E-Mail/Messaging

SanDisk's CloudSpeed Ultra™ SATA SSDs are the next generation of 19nm NAND with higher performance that are optimized for enterprise server and cloud computing environments. CloudSpeed Ultra SSDs are ideally suited for mixed-use application workloads such as On-line Transaction Processing (OLTP), SQL Logging, Collaboration, Financial Transactions, E-commerce, and E-Mail/Messaging. The CloudSpeed Ultra SSDs excellent price-performance makes it an ideal replacement for hard disk drives.

Available in capacities of 200GB-800GB*, CloudSpeed Ultra SSDs feature a 6Gb/s SATA interface and provide data transfer rates up to 450/400 MB/s** sequential read/write and performance up to 80K/25K IOPS random read/write. CloudSpeed Ultra SSDs offer high data integrity by employing a combination of powerful error correction and detection, full data path protection, thermal monitoring, and data fail recovery.

Guardian Technology™ Platform

CloudSpeed Ultra SATA SSDs are powered by SanDisk's proprietary Guardian Technology Platform, a suite of enterprise features that include FlashGuard™, DataGuard™ and EverGuard™ technologies.

FlashGuard Technology combines Aggregated Flash Management, which treats all flash elements as a single system, and Advanced Signal Processing, which dynamically adjusts flash parameters throughout the life of the SSD, to reliably extract significantly more life from cost-effective 19nm MLC flash, making it suitable for mixed-use application workloads.

DataGuard Technology features full data path protection, safeguarding user data from corruption along all data paths in the SSD.

EverGuard Technology protects against loss of user data in the event of unexpected power interruptions using a 3rd generation backup power circuit design and high-reliability discrete capacitors.

SanDisk®

Corporate Armor For more information, please call **877.449.0458**, or email us at **Sales@CorporateArmor.com**.

CloudSpeed Ultra™ 2.5" SATA SSDs
Preliminary Specifications subject to change

Performance	
Interface	SATA 6Gb/s
Sequential Read/Write (MB/s)**	Up to 450/400 MB/s[1]
Random Read/Write (IOPS)	Up to 80K/25K IOPS[2]
Access Time	< 2.0 ms
Capacity	
19nm MLC User Capacities*	200GB, 400GB, 800GB
Reliability	
Data Reliability (BER)	1 unrecoverable error in 10^{17} bits read[3]
MTBF***	2.5M hours
Data Fail Recovery	Recover up to 1 NAND flash erase block of data
Power Fail Recovery	High-reliability backup-power circuitry
Temperature Monitoring	Performance throttling upon warning/critical temperature
Warranty****	The lesser of 5 years or maximum endurance used
Endurance	
DWPD (Random Workload)****	3 DWPD
Power	
Vcc	5V ± 5%
Active (Typ)	5.2W
Idle	2.2W
Environmental	
Shock (operating)	1000g @ 1.0 msec, 1 shock along each axis, X, Y, Z, in each direction
Vibration (operating)	2.17 g rms 7-800 Hz
Operating Temperature	0° C to 70° C (internal)
Storage Temperature	-40° C to 95° C
Humidity	5% to 95%, non-condensing, relative humidity[4]
Altitude	-200 feet to 10,000 feet
Mechanical	
Length	100.2 mm
Width	69.85 mm
Height	7 mm

(1) Based on a 128KB transfer rate, using Oakgate SVF exerciser
(2) Based on 4KB transfer rate using Oakgate SVG exerciser
(3) The JEDEC 64.8 specification requires 1 in 10^{17} for enterprise-class SSDs
(4) Based on MIL-STD 810-F, Method 507.4

CloudSpeed Ultra™ 2.5" SATA SSDs - Ordering Information

Part Number	Capacity
SDLFODAM-200G-1Hxx	200GB
SDLFODAM-400G-1Hxx	400GB
SDLFOCAM-800G-1Hxx	800GB

xx - Pack Out Option:
Generic/Sample: A1
10 Pack: 02
Bulk Pack: 03

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www.sandisk.com/enterprise

SanDisk®

At SanDisk, we're expanding the possibilities of data storage. For more than 25 years, SanDisk's ideas have helped transform the industry, delivering next generation storage solutions for consumers and businesses around the globe.

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Specifications subject to change without notice.
*1 GB = 1,000,000,000 bytes. Actual user capacity less.
**Up to stated speed. Based on internal testing; performance may vary depending upon drive capacity, host device, OS and application.
1 megabyte (MB) = 1 million bytes.
***MTBF - Mean Time Between Failures based on parts stress analysis.
****Warranty/DWPD - The lesser of 5 years from the date of manufacture of the product or the date on which the product's relevant endurance thresholds set forth in the product specifications are reached.

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