Lightning Ascend™ Gen. II SAS SSDs

Maximum bandwidth with high speed data transfer rates where quick access to data is essential

Features

- Full data path protection, end-to-end T10-DIF support
- Temperature-based performance control
- MTBF - 2.5 Million Hours[3]
- 5 Year Warranty[4]

Benefits

- High, Predictable Performance
- Industry-leading Reliability
- Highest cost-to-performance value
- Maximum bandwidth for high speed data transfer rates
- Complete vertical integration

Mixed-Use Application Workloads

- On-Line Transaction Processing (OLTP) Databases
- Financial Transactions
- E-Commerce
- Email/Messaging
- Virtual Desktop Infrastructure (VDI)
- Collaboration

The Lightning Ascend™ Gen. II 12Gb/s SAS SSD doubles interface speed, providing the highest performance for mission-critical hyperscale, cloud and virtualized data center application workloads.This next generation Lightning® SSD offers a feature-rich robust design, combined with SanDisk's innovative parallel processing architecture to deliver full data path protection (T10-DIF support), temperature based power control, SED instant secure erase, an MTBF of 2.5 million hours and power fail protection. This SSD is backward-compatible with 6Gb/s SAS and offers a single firmware binary platform for seamless integration and reduced qualification times.

Lightning Ascend Gen. II SAS SSDs offer superior reliability with high speed data transfer rates where quick access to data is essential. Available in 19nm eMLC capacities from 200GB – 1.6TB[2] and with random read/write performance of up to 195K/100K IOPS* and sequential read/write speed of up to 980/600 MB/s[1]/*. These SSDs are designed for mixed-use applications such as On-line Transaction Processing (OLTP) Databases, Email/Messaging, E-Commerce, Virtual Desktop Infrastructure, and Collaboration with a typical workload comprised of a 70/30 read/write mix. This SSD offers 10 full drive writes per day (DWPD) with a limited 5 year warranty[4].

Lightning Ascend Gen. II SAS SSDs are a product of SanDisk's vertical integration - spanning from the fabrication of the NAND technology and wafer to the manufacturing of the finished SSD. This vertical integration results in a customized solution that takes full advantage of each component to deliver maximum performance and quality assurance. Lightning Ascend Gen. II SSDs provide high, predictable-performance, industry-leading reliability and maximum value.

Lightning Ascend™ Gen. II 12Gb/s SAS 2.5″ SSDs

	200GB – 1.6TB
Performance/IOPS	
Data Throughput (Sequential Read/Write)[1]/*	Up to 980/600 MB/s
Total IOPS* (Random Read) 4KB – (single port)	Up to 195,000 IOPS
Total IOPS* (Random Write) 4KB – (single port)	Up to 100,000 IOPS
Interface, Capacity, and Memory Technology	
Host Interface	12Gb/s SAS
Interface Ports	Dual (x2 wide) full-duplex
Form Factor	2.5 inch
19nm eMLC User Capacities[2]	200GB, 400GB, 800GB, 1.6TB
Sector Sizes Supported	512, 520, 4K bytes/sector T10-DIF 1, DIF 2 Support
Reliability	
Unrecovered Bit Error Rate (UBER)	<1 sector in 10^{18} bits read
End-to-End Data Protection	No performance impact
Patrol Read (automatic)	No performance impact
Power-on Hours	8760 hours per year
MTBF[3]	2.5 million hours
Warranty[4]	Lesser of 5 years or maximum endurance used
Endurance	
DWPD (Random Read)	10 DWPD
Physical Dimensions	
Height (max)	15.0 mm
Width (max)	70.1 mm
Length (max)	100.45 mm
Weight	0.238 Kg
Power Consumption	
Idle	3.9 watts
Typical	5.9 watts
Environment	
Operating Temperature (ambient)	0 to 60° C
Non-operating Temperature	-40 to 85° C
Start-up Time (Power-on to Ready)	<15 seconds

Lightning Ascend™ Gen. II 12Gb/s SAS 2.5″ SSDs - Ordering Information

Part Number	Capacity
SDLTODKM-200G-5Cxx	200GB
SDLTODKM-400G-5Cxx	400GB
SDLTODKM-800G-5Cxx	800GB
SDLTOCKM-016T-5Cxx	1.6TB

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

Specifications subject to change without notice. All specifications are based on an 11W performance level.
* Performance may vary by capacity.
(1) Based on direct attached SAS performance testing, performance may be lower depending upon host device, OS and application.
(2) 1 gigabyte (GB) = 1 billion bytes. Some capacity not available for data storage.
(3) MTBF – Mean Time Between Failures based on parts stress analysis.
(4) The earlier of (I) five (5) years or (II) the time at which such Product unit's total cumulative data recorded on such unit at its S.M.A.R.T. attribute (log page 2Fh, parameter 25) or log page 11h, parameter 1 (Percentage Used Endurance Indicator) reaches 100% of the Product unit's endurance value. For more warranty information, please visit kb.sandisk.com.

Contact information

ESS.channelsales@sandisk.com
ESS.OEMsales@sandisk.com
businesspartners@sandisk.com

SanDisk Corporation
951 SanDisk Drive
Milpitas, CA 95035-7933, USA
T: 1-800-578-6007

For more information, please visit:
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.

951 SanDisk Drive | Milpitas | CA 95035 | USA

Free Manuals Download Website

http://myh66.com

http://usermanuals.us

http://www.somanuals.com

http://www.4manuals.cc

http://www.manual-lib.com

http://www.404manual.com

http://www.luxmanual.com

http://aubethermostatmanual.com

Golf course search by state

http://golfingnear.com

Email search by domain

http://emailbydomain.com

Auto manuals search

http://auto.somanuals.com

TV manuals search

http://tv.somanuals.com