

Ultrastar™ 15K600

3.5-Inch Enterprise 15K RPM Hard Disk Drives

Highlights

- 600GB¹ capacity will store most everything
- Spinning at 15,000 RPM for mission critical performance
- FCAL & SAS interfaces for reliable data throughput
- Advanced Power Management optimizes power consumption
- Largest 64MB cache buffer in the industry
- Self-encrypting models conform to TCG's Enterprise A specification

Applications/Environments

- · Business & online transaction processing
- · Internet, file sharing and email
- · Decision support & RAID
- NAS, SAN and enterprise-class servers
- High performance computing and other applications requiring 24x7 availability

All-in-one Storage Solution

HGST combines ultimate performance with high capacity in the same drive. The Ultrastar™ 15K600 can store up to 600GB of data while spinning at 15,000 RPM. That amounts to a capacity growth of 33% over its predecessor to keep pace with digital data growth and improve space efficiency in today's data centers. At the same time, sequential performance increased by 23% compared to prior generation to keep data moving faster. The 64MB cache buffer is the largest in the industry in its class and the 15K600 is designed for HGST reliability. The 6Gb/s Serial Attached SCSI (SAS) and 4Gb/s Fibre Channel Arbitrated Loop (FCAL) interfaces support the reliability required in the most demanding enterprise computing environments like on-line transaction processing, intensive data analysis, multi-user applications and data warehousing.

Friends of the Earth

Compared to its predecessor, power usage is reduced by up to 31% to help reduce the cooling requirements in data centers. In addition, Advanced Power Management feature enables multiple idle modes in order to optimize power usage and save even more on energy costs. The 15K600 also saves money because the larger capacity enables higher data storage density in the current footprint without further expansion of the data center. These ecofriendly features qualify the 15K600 for the EcoTrac classification.

Compromise Nothing

The Ultrastar 15K600 self-encrypting models conform to the Trusted Computing Group's Enterprise A Security Subsystem Class encryption specification. Now, customers can reduce costs associated with drive retirement and extend drive life by enabling repurposing of drives.

Features and Benefits

	Feature / Function	Benefits	
Return on Investment	Advanced power management	Lowers power consumption and saves cooling cost	
	Trusted Computing Group Enterprise A encryption	Reduces drive retirement cost	
Performance	15,000 RPM	High performance for mission critical applications	
	64MB cache buffer	Optimizes read/write response times	
	Rotational Vibration Safeguard (RVS)	Maintains drive performance in high rotational vibration environments and multi-drive systems	
	Workload detector technology	Maximizes performance in RAID environments	
Reliability	FCAL 4Gb/s & SAS 6Gb/s	Fast and reliable interfaces for enterprise-class applications	
	Reverse concatenation	Improves signal processing	
	Repeatable Run Out (RRO) fields	Reduction in RRO lowers risk of data squeeze and write inhibit rate	
	End-to-end data protection (ANSI)	Enhances error detection for optimal data integrity	
	Head load/unload ramp	Minimizes handling damage during integration	
	Fluid Dynamic Bearing (FDB) Motor	Improves acoustics & proven reliability	







HGST Quality and Service

HGST's Ultrastar 15K600 extends the company's long-standing tradition of performance and reliability leadership. A balanced combination of new and proven technologies enables high reliability and availability to customer data.

HGST drives are backed by an array of technical support and services, which may include customer and integration assistance. HGST is dedicated to providing a breadth of hard disk drive solutions to satisfy all of today's demanding computing needs.

How to read the Ultrastar model number

HUS156060VLS600 = 600GB, SAS 6Gb/s

H = HGST

U = Ultrastar

S = Standard (vs S for Compact)

15 = 15.000 RPM

60 = Full capacity — 600GB

60 = Capacity this model, 60 = 600GB (45 = 450GB, 30 = 300GB)

= Generation code

L = 25.8mm z-height

S6 = Interface, SAS 6Gb/s (F4 = FCAL 4Gb/s)

0 = Reserved

0 = No encryption (1 = TCG encryption)

Information and Technical Support

www.hgst.com (Main Web site) www.hgst.com/partners (Partner Web site)

North America

support_usa@hgst.com

Toll free: 1 888 426-5214, Direct: 1 408 717-8087

Asia Pacific

support_ap@hgst.com / 65 6840 9595

EMEA and UK

support_uk@hgst.com / 44 20 7133 0032

support_uk@hgst.com / 49 6929 993601

Program Support

Partners First Program channelpartners@hgst.com

Specifications

HUSIS6060VLS601 HUSIS604SVLF400 HUSIS604SVLF400 HUSIS604SVLF400 HUSIS604SVLF400 HUSIS604SVLF400 HUSIS6030VLS600 HUSIS6030VLF401 HUSIS6030VLS600 HUSIS6030VLF401 HUSIS6030VL	Models	HUS156060VLS600	HUS156060VLF400
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Capacity (GB)¹ 600 / 450 / 300 ← Data heads (physical) 8 / 6 / 4 ← Data Disks 4 / 3 / 2 ← Performance Data buffer (MB)² 64 ← Rotational speed (RPM) 15,000 ← Interface transfer rate (MB/s, max) 600 400 Sustained transfer rate (MB/s, typical) 198 to 119 ← Seek time (read/write, ms, typical)³ 3.4 ← Seek time (read/write, ms, typical)³ 3.4 ← Error rate (non-recoverable, bits read) 1 in 10¹6 ← MTBF⁴ (M hours) 1.6 ← Availability (hrs/day x days/wk) 24x7 ← Acoustics Idle (Bels) 3.7 ← Power Requirement +5 VDC (+/-5%) ← Power Requirement +5 VDC (+/-5%) ← Unload power idle (W) 10.7 / 9.2 / 7.7 ← Physical size - ←	•		
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¹ One GB is equal to one billion bytes when referring to hard drive capacity. Accessible capacity will vary depending on the operating



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The EcoTrac symbol identifies HGST hard drives that deliver on the principles of lower operating costs, safer product disposal and a more sustainable environment.

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Product specifications provided are sample specifications and do not constitute a warranty. Information is true as of the date of publication and is subject to change. Actual specifications for unique part numbers may vary.

environment and formatting.

2 Portion of buffer capacity used for drive firmware

3 Excludes command overhead

⁴ MTBF target is based on a sample population and is estimated by statistical measurements and acceleration algorithms under median ope conditions. MTBF ratings are not intended to predict an individual drive's reliability. MTBF does not constitute a warranty.