

Archive HDD

Data Sheet

Supersized capacity, energy efficiency and lowest TCO

- Seagate brings over 30 years of trusted storage reliability to the growing need for online long-term storage.
- Industry's best cost/GB/watt 8TB hard drive
- Engineered for 24×7 workloads of 180TB per year
- Drive down costs with up to 1.33TB-per-disk hard drive technology.
- SATA 6Gb/s interface optimizes burst performance
- Seagate AcuTrac[™] servo technology delivers dependable performance.
- Free Seagate DiskWizard[™] software allows you to install 5TB, 6TB and 8TB hard drives in Windows without UEFI BIOS.
- Seagate Secure[™] models provide hardware-based data security and deliver an Instant Secure Erase feature for safe, fast and easy drive retirement.¹
- Seagate Secure models meet the NIST 800-88 media sanitization specification and also support the Trusted Computing Group (TCG) standards.¹

Best-Fit Applications²

- Cost-effective online archiving
- Object storage
- Big Data cold storage
- Cloud active archive
- Web-scale archiving
- 1 Seagate Secure models are not available in all countries. May require TCG-compliant host or controller support.
- 2 Archive HDDs are not intended for surveillance or NAS applications, and you may experience lower performance in these environments. For these applications, Seagate NAS HDDs and Seagate Surveillance HDDs are suggested for better performance and reliability.



Archive HDD



Specifications8TB16TB15TB1Product VersionArchive HDD v2Archive HDD v2Archive HDD v2Standard Model NumbersST8000AS0002ST6000AS0002ST5000AS0Seagate Secure [™] Model NumbersST8000AS0012ST6000AS0012ST5000AS0	
Standard Model Numbers ST8000AS0002 ST6000AS0002 ST5000AS0 Seagate Secure™ Model Numbers ST8000AS0012 ST6000AS0012 ST5000AS0	חח
Seagate Secure [™] Model Numbers ST8000AS0012 ST6000AS0012 ST5000AS0	
Interface Options SATA 6Gb/s NCQ SATA 6Gb/s NCQ SATA 6Gb/s NCQ SATA 6Gb/s	NCQ
Performance	
Cache, Multisegmented (MB) 128 128 128	
SATA Transfer Rates Supported (Gb/s) 6.0/3.0/1.5 6.0/3.0/1.5 6.0/3.0/1	.5
Average Data Rate, Read/Write (MB/s) 150 146	
Max Sustained Data Rate, OD Read (MB/s) 190 190 180	
Configuration/Organization	
Heads/Disks 12/6 12/6 8/4	
Bytes per Sector 4096 4096 4096	
SMR Technology, Drive-Managed Yes Yes Yes	
Voltage	
Voltage Tolerance, Inc. Noise (5V) ±5% ±5% ±5%	
Voltage Tolerance, Inc. Noise (12V) ±10% ±10%	
Reliability/Data Integrity	
Load/Unload Cycles 300,000 300,000 300,000	0
Nonrecoverable Read Errors per Bits Read, Max 1 per 10E14 1 per 10E	:14
Workload Rate Limit (TB/year) 180 180 180 De v 0 kluster 0700 (04.7) 0700 (04.7) 0700 (04.7)	
Power-On Hours 8760 (24×7) 8760 (24×7) 8760 (24×7)	×7)
Mean Time Between Failures (MTBF) (hours) 800K 800K 800K	
Limited Warranty (years) ² 3 3 3	
Power Management	
Startup Power (A) 2.0 2.0 2.0	
Operating Mode, Typical (W) 7.5 7.5	
Idle Average (W) ³ 5.0 3.5	
Standby Mode (W) <1.0 <0.75	
Sleep Mode (W) <1.0 <0.75	
Environmental	
Temperature	
Operating (ambient min °C) 0 </td <td></td>	
Operating (drive case max °C) 60 60 60	
Nonoperating (ambient °C) -40 to 70 -40 to 70 -40 to 70	0
Halogen Free Yes Yes Yes	
RoHS Compliance Yes Yes Yes	
Physical Contract Con	
Height (mm/in) 26.11/1.028 26.11/1.028 26.11/1.0	28
Width (mm/in) 101.6/4.0 101.6/4.0 101.6/4.0	
Depth (mm/in) 146.99/5.787 146.99/5.787 146.99/5.	
Weight (g/lb) 780/1.72 780/1.72 655/1.44	
Carton Unit Quantity 20 20 20	••
Cartons per Pallet 40 40 40	
Cartons per Laver 8 8 8	
Special Features	
Seagate AcuTrac TM Technology	
Seagate AcuTrac™ Technology Yes Yes In Drive Diagontiae (IDD) Yes Yes	
In-Drive Diagostics (IDD) Yes Yes Yes	
In-Drive Diagostics (IDD)YesYesYesSeagate PowerChoice™ TechnologyYesYes—	
In-Drive Diagostics (IDD)YesYesYesSeagate PowerChoice™ TechnologyYesYesDeferred SATA ActivationYesYesYes	
In-Drive Diagostics (IDD)YesYesYesSeagate PowerChoice™ TechnologyYesYesYesDeferred SATA ActivationYesYesYesTimestampYesYesYes	
In-Drive Diagostics (IDD)YesYesYesSeagate PowerChoice™ TechnologyYesYesDeferred SATA ActivationYesYesYesYesTimestampYesYesYesYesSeagate Instant Secure EraseOptionalOptionalOptional	l
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In-Drive Diagostics (IDD) Yes Yes Seagate PowerChoice™ Technology Yes Yes	1

1 One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.

2 Extended warranty products available. Consult your distributor for details. 3 During periods of drive idle, some offline activity may occur according to the S.M.A.R.T. specification, which may increase acoustic and power to operational levels. Consult the product manual for more information.

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AMERICAS ASIA/PACIFIC EUROPE, MIDDLE EAST AND AFRICA Seagate Technology LLC 10200 South De Anza Boulevard, Cupertino, California 95014, United States, 408-658-1000 Seagate Singapore International Headquarters Pte. Ltd. 7000 Ang Mo Kio Avenue 5, Singapore 569877, 65-6485-3888 Seagate Technology SAS 16-18, rue du Dôme, 92100 Boulogne-Billancourt, France, 33 1-4186 10 00

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