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 24x7 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.

Best-Fit Applications

- Cost-effective online archiving
- Object storage
- Big Data cold storage
- Cloud active archive
- Web-scale archiving

1 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.
## Specifications

### 8TB

- **Product Version**: Archive HDD v2
- **Interface Options**: SATA 6Gb/s NCQ
- **Performance**:
  - Cache, Multisegmented (MB): 128
  - Average Data Rate, Read/Write (MB/s): 150
  - Max Sequential Read Data Rate, OD Read (MB/s): 190
- **Configuration/Gratification**:
  - Heads/Disks: 12/6
  - Sector (Media/Format): 4096/512E
  - Voltage Tolerance, Inc. Noise (5V): ±5%
  - SMR Technology, Drive-Managed: Yes
  - Voltage Tolerance, Inc. Noise (12V): ±5%
- **Reliability/Data Integrity**:
  - Load/Unload Cycles: 300,000
  - Nonrecoverable Read Errors per Bits Read, Max: 1 per 10E14
  - Workload Rate Limit (TB/year): 180
  - Mean Time Between Failures (MTBF) (hours): 800K
  - Limited Warranty (years): 3
- **Power Management**:
  - Startup Power (A): 2.0
  - Operating Mode, Typical (W): 7.5
  - Idle Average (W): 5.0
  - Standby Mode (W): <1.0
- **Environmental**:
  - Operating (ambient min °C): 0
  - Operating (drive case max °C): 60
  - Nonoperating (ambient °C): −40 to 70
  - Halogen Free: Yes
  - RoHS Compliance: Yes
- **Physical**:
  - Height (mm/in): 26.11/1.028
  - Width (mm/in): 101.6/4.0
  - Depth (mm/in): 146.99/5.787
- **Special Features**:
  - Seagate AcuTrac™ Technology: Yes
  - In-Drive Diagnostics (IDD): Yes
  - Seagate PowerChoice™ Technology: Yes
  - Deferred SATA Activation: Yes
  - Timestamp: Yes
  - SeaTools™ Diagnostic Software: Yes
  - S.M.A.R.T. Drive Monitoring and Reporting: Yes
  - Hotplug Operation (per SATA Rev. 3.0 Specifications): Yes
  - Enterprise CS Phone Support: Yes

### 6TB

- **Product Version**: Archive HDD v2
- **Interface Options**: SATA 6Gb/s NCQ
- **Performance**:
  - Cache, Multisegmented (MB): 128
  - Average Data Rate, Read/Write (MB/s): 150
  - Max Sequential Read Data Rate, OD Read (MB/s): 190
- **Configuration/Gratification**:
  - Heads/Disks: 12/6
  - Sector (Media/Format): 4096/512E
  - Voltage Tolerance, Inc. Noise (5V): ±5%
  - SMR Technology, Drive-Managed: Yes
  - Voltage Tolerance, Inc. Noise (12V): ±5%
- **Reliability/Data Integrity**:
  - Load/Unload Cycles: 300,000
  - Nonrecoverable Read Errors per Bits Read, Max: 1 per 10E14
  - Workload Rate Limit (TB/year): 180
  - Mean Time Between Failures (MTBF) (hours): 800K
  - Limited Warranty (years): 3
- **Power Management**:
  - Startup Power (A): 2.0
  - Operating Mode, Typical (W): 7.5
  - Idle Average (W): 5.0
  - Standby Mode (W): <1.0
- **Environmental**:
  - Operating (ambient min °C): 0
  - Operating (drive case max °C): 60
  - Nonoperating (ambient °C): −40 to 70
  - Halogen Free: Yes
  - RoHS Compliance: Yes
- **Physical**:
  - Height (mm/in): 26.11/1.028
  - Width (mm/in): 101.6/4.0
  - Depth (mm/in): 146.99/5.787
- **Special Features**:
  - Seagate AcuTrac™ Technology: Yes
  - In-Drive Diagnostics (IDD): Yes
  - Seagate PowerChoice™ Technology: Yes
  - Deferred SATA Activation: Yes
  - Timestamp: Yes
  - SeaTools™ Diagnostic Software: Yes
  - S.M.A.R.T. Drive Monitoring and Reporting: Yes
  - Hotplug Operation (per SATA Rev. 3.0 Specifications): Yes
  - Enterprise CS Phone Support: Yes

### 5TB

- **Product Version**: Archive HDD
- **Interface Options**: SATA 6Gb/s NCQ
- **Performance**:
  - Cache, Multisegmented (MB): 128
  - Average Data Rate, Read/Write (MB/s): 146
  - Max Sequential Read Data Rate, OD Read (MB/s): 180
- **Configuration/Gratification**:
  - Heads/Disks: 8/4
  - Sector (Media/Format): 4096/512E
  - Voltage Tolerance, Inc. Noise (5V): ±5%
  - SMR Technology, Drive-Managed: Yes
  - Voltage Tolerance, Inc. Noise (12V): ±5%
- **Reliability/Data Integrity**:
  - Load/Unload Cycles: 300,000
  - Nonrecoverable Read Errors per Bits Read, Max: 1 per 10E14
  - Workload Rate Limit (TB/year): 180
  - Mean Time Between Failures (MTBF) (hours): 800K
  - Limited Warranty (years): 3
- **Power Management**:
  - Startup Power (A): 2.0
  - Operating Mode, Typical (W): 7.5
  - Idle Average (W): 5.0
  - Standby Mode (W): <1.0
- **Environmental**:
  - Operating (ambient min °C): 0
  - Operating (drive case max °C): 60
  - Nonoperating (ambient °C): −40 to 70
  - Halogen Free: Yes
  - RoHS Compliance: Yes
- **Physical**:
  - Height (mm/in): 26.11/1.028
  - Width (mm/in): 101.6/4.0
  - Depth (mm/in): 146.99/5.787
- **Special Features**:
  - Seagate AcuTrac™ Technology: Yes
  - In-Drive Diagnostics (IDD): Yes
  - Seagate PowerChoice™ Technology: Yes
  - Deferred SATA Activation: Yes
  - Timestamp: Yes
  - SeaTools™ Diagnostic Software: Yes
  - S.M.A.R.T. Drive Monitoring and Reporting: Yes
  - Hotplug Operation (per SATA Rev. 3.0 Specifications): Yes
  - Enterprise CS Phone Support: Yes

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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.