NAS HDD

Data Sheet

Best-Performing, Highest-Capacity Storage
for 1- to 8-Bay NAS Systems

• Seagate® NAS HDDs are built and tested to provide industry-leading performance for small NAS systems.
• NASWorks™ technology supports customized error recovery controls, power management and vibration tolerance for optimal performance and reliability in a 1- to 8-bay solution with 20 users or less.
• NAS error recovery controls optimize drive health by helping to ensure drives are not dropped from the NAS and sent into a RAID rebuild.
• Improved vibration tolerance and emission in multi-drive systems with dual-plane balance
• Advanced power management supports multiple power profiles for low-power, 24×7 performance.
• Quiet drive operation enhances customer experience in living room or office environments.
• Optional 3-year +Rescue Data Recovery Service plan protects against data loss from viruses, software issues, or mechanical and electrical breakdowns in a NAS or RAID environment.

Best-Fit Applications

• Home/SOHO NAS desktop towers
• Desktop RAID
• Backup and disaster recovery
• Print and file servers
• Multimedia server/storage
• Archival
• Virtualization
• Small-business file sharing
• Backup servers
## NAS HDD

### Specifications

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Bonus Pack Models</th>
<th>Single Drive Models</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>16TB1</td>
<td>4TB1</td>
</tr>
<tr>
<td>+Rescue Model Number</td>
<td>ST16000VN000 (4 × 4TB)</td>
<td>ST4000VN0002 (2 × 2TB)</td>
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<tr>
<td>Halogen Free</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### NASWorks

- Number of Drive Bays Supported: 1 to 8
- Dual-Plane Balance: Yes
- Vibration Tolerance for Small NAS: Yes
- NASWorks Error Recovery Control: Yes
- +Rescue Data Recovery Service: 3-Year Option With +Rescue Model

### Performance (Per Drive)

- Cache, Multisegmented (MB): 64
- SATA Transfer Rates Supported (Gb/s): 6.0
- Power-On or Standby to Read (typical, sec): <17
- Max Sustained Data Transfer Rate OD (MB/s): 180

### Voltage (Per Drive)

- Voltage Tolerance, Including Noise (5V): ±5%
- Voltage Tolerance, Including Noise (12V): ±10%

### Power Management (Per Drive)

- Startup Current (12V, A max): 2.0
- Operating Average (W): 4.8
- Idle Average (W): 3.95
- Standby/Sleep Mode (typical, W): 0.5

### Environmental (Per Drive)

- Temperature (°C):
  - Operating (ambient min): 0
  - Operating (drive case max): 70
  - Nonoperating (ambient): –40 to 70
  - Temperature Gradient, Operating/Nonoperating (°C per hour max): 20/30

### Shock

- Operating: 2ms (max, Gs): 80
- Nonoperating: 2ms (max, Gs): 300

### Acoustics

- Idle (typical, bels): 2.3
- Operational (typical, bels): 2.5

### Reliability (Per Drive)

- Load/Unload: 600,000
- Nonrecoverable Read Errors per Bits Read, Max: 1 per 10E14
- Power-On Hours: 8760
- Mean Time Between Failures (MTBF, hours): 1M
- Warranty, Limited (years): 3

### Physical (Per Drive)

- Height (mm/in, max): 26.11/1.028
- Width (mm/in, max): 101.6/4.0
- Depth (mm/in, max): 146.995/5.878
- Weight (lb, max): 610/1.345
- Carton Unit Quantity: TBD
- Cartons per Pallet: TBD
- Cartons per Layer: TBD

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1 One terabyte, or TB, equals one trillion bytes when referring to drive capacity.
2 Idle measured in Idle1 state
3 Load/Unload tested to 600,000 cycles

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