

NAS HDD

Data Sheet

Ultra-Reliable 6TB Drives for NAS, Cloud, Servers and RAID

- 6, 5, 4, 3, 2 and 1TB capacity options
- 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 with workloads up to 180TB/year workload rating limit (WRL).
- 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, 24x7 performance.
Quiet drive operation enhances customer experience in living room or office environments.
- Optional 3-year Rescue 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 and servers
- Backup and disaster recovery
- Print and file servers
- Multimedia server/storage
- Archival
- Virtualization
- Small-business file sharing
- Backup servers
- Personal cloud





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Specifications	6TB	4TB	3TB	2TB	1TB
Model Number	ST6000VN0021	ST4000VN000	ST3000VN000	ST2000VN000	ST1000VN000
Rescue Model Number	ST6000VN0031	ST4000VN003	—	ST2000VN001	ST1000VN001
Halogen Free	Yes	Yes	Yes	Yes	Yes
NASWorks					
Drive bays supported	1 to 8	1 to 8	1 to 8	1 to 8	1 to 8
Dual-Plane Balance	Yes	Yes	Yes	Yes	No
NASWorks Error Recovery Control	Yes	Yes	Yes	Yes	Yes
Performance					
Cache	128MB	64MB	64MB	64MB	64MB
Max Sustainable Transfer Rate	216MB/s	180MB/s	180MB/s	180MB/s	180MB/s
Interface	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s
Power Management					
Startup Power (12V, A)	2.0	2.0	2.0	2.0	1.2
Average Operating Power	9.0W	4.8W	5.6W	5.0W	3.6W
Idle Average	7.2W	3.95W	4.9W	3.7W	2.5W
Standby/Sleep Mode	0.6W/0.6W	0.5W/0.5W	0.5W/0.5W	0.8W/0.8W	0.8W/0.8W
Environmental/Temperature					
Temperature, Operating (°C)	0°C ~ 60°C	0°C ~ 70°C	0°C ~ 70°C	0°C ~ 70°C	0°C ~ 70°C
Temperature, Nonoperating (°C)	-40°C ~ 60°C	-40°C ~ 70°C	-40°C ~ 70°C	-40°C ~ 70°C	-40°C ~ 70°C
Temperature Gradient, Operating/NonOperating (max)	20°C per hour/30°C per hour	20°C per hour/30°C per hour	20°C per hour/30°C per hour	20°C per hour/30°C per hour	20°C per hour/30°C per hour
Environmental/Shock					
Shock, Operating/NonOperating: 2ms (max)	70Gs/250Gs	80Gs/300Gs	80Gs/300Gs	80Gs/300Gs	80Gs/300Gs
Environmental/Acoustics					
Idle (typical) ¹	2.5bels	2.3bels	2.3bels	2.3bels	2.1bels
Operational (typical)	2.6bels	2.5bels	2.4bels	2.4bels	2.3bels
Reliability					
Nonrecoverable Read Errors per Bits Read, Max	1 per 10E15	1 per 10E15	1 per 10E15	1 per 10E15	1 per 10E15
Power-On Hours	8760	8760	8760	8760	8760
Mean Time Between Failures	1,000,000hr	1,000,000hr	1,000,000hr	1,000,000hr	1,000,000hr
Warranty, Limited (years)	3	3	3	3	3
Physical					
Height (mm/in)	26.11mm/1.028in	26.11mm/1.028in	26.11mm/1.028in	26.11mm/1.028in	19.98mm/0.787in
Width (mm/in, max)	101.6mm/4.0in	101.60mm/4.000in	101.60mm/4.0in	101.60mm/4.0in	101.60mm/4.0in
Depth (mm/in, max)	146.99mm/5.787in	146.99mm/5.787in	146.99mm/5.787in	146.99mm/5.787in	146.99mm/5.787in
Weight (g/lb)	780g/1.72lb	610g/1.345lb	610g/1.345lb	535g/1.18lb	400g/0.88lb
Carton Unit Quantity	20	20	20	20	25
Cartons per Pallet / Cartons per Layer	40 / 8	40 / 8	40 / 8	40 / 8	40 / 8

¹ Idle measured in Idle1 state

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

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