



3.5 HDD DATA SHEET

Tough. Ready. Scalable. Purpose-built for Creative Pro, Medium-to-Large Business NAS Storage Solutions



IronWolf Pro is designed to deliver reliable and dependable performance in 24x7 intensive workload environments. It is engineered to perform in commercial and enterprise multi-bay, multiuser, multi-application NAS storage solutions.



Best-Fit Applications

- Commercial and Enterprise NAS
- Video Production RAID Storage
- Shared Storage for Media Editing
- Workstations and Servers
- Archive and Backup



Key Advantages

Optimized for NAS with AgileArray[™] AgileArray uses dual-plane balancing and time-limited error recovery (TLER) to deliver best-in-class RAID performance in multi-bay systems.

Always On, Always Accessible IronWolf Pro drives are designed for 24x7 performance, allowing users to access their data anytime, anywhere.

All-CMR Portfolio All IronWolf Pro drives utilize conventional magnetic recording (CMR) technology for consistent, best-in-class NAS performance.

Up to 20TB Broad range of high-performance capacity options to deliver scalable and costefficient storage solutions.

Built Tough IronWolf Pro drives are rated for up to 550TB/year workload rate, allowing commercial and enterprise NAS users to seamlessly store, share, and collaborate on large amounts of data over a network.

Class-Leading Reliability and Dependability IronWolf Pro drives are rated for up to 2.5M hours MTBF and include a 5-year limited warranty for hassle-free data storage and best-inclass total cost of ownership (TCO).

Rotational Vibration (RV) sensors Built-in RV sensors coupled with dynamic fly-height technology correct for external vibration to deliver consistently high performance and reliability in multi-bay systems.

IronWolf Health Management (IHM)¹ Actively protect your data with prevention, intervention, and recovery recommendations to ensure peak system health.

Peace of mind with Data Recovery² IronWolf Pro drives include three years of complimentary Rescue Data Recovery Services so users don't incur high recovery costs. Inhouse secure facilities with an industry-leading 95% success rate enable data recovery in the event of accidental data corruption or drive damage.

1 IHM is enabled on all leading NAS systems. Please check with your NAS vendor or a Seagate[®] sales representative for more details. 2 Rescue Data Recovery Services are not available in some countries. Contact your Seagate sales representative for further details.





Specifications	20TB	20TB	18TB	18TB
Capacity	20TB	20TB	18TB	18TB
Standard Model Number	ST20000NT001	ST20000NE000 ST18000NT001		ST18000NE000
Interface	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s
Features	·		·	
Drive Bays Supported	Unlimited	Up to 24-bay	Unlimited	Up to 24-bay
Recording Technology	CMR	CMR	CMR	CMR
Drive Design (Air or Helium)	Helium	Helium	Helium	Helium
Workload Rate Limit (WRL)	550	300	550	300
Rotational Vibration (RV) Sensors	Yes	Yes	Yes	Yes
Cache (MB)	256	256	256	256
Reliability/Data Integrity				
Mean Time Between Failures (MTBF, hours)	2,500,000	1,200,000	2,500,000	1,200,000
Nonrecoverable Read Errors per Bits Read, Max	1 per 10E15	1 per 10E15	1 per 10E15	1 per 10E15
Power-On Hours (per year)	8,760	8,760	8,760	8,760
Sector Size (Bytes per Logical Sector)	512E	512E	512E	512E
Rescue Data Recovery Services(years) 3	3	3	3	3
Limited Warranty (years)	5	5	5	5
Performance				
Spindle Speed (RPM)	7200	7200	7200	7200
Interface Access Speed (Gb/s)	6.0, 3.0, 1.5	6.0, 3.0, 1.5	6.0, 3.0, 1.5	6.0, 3.0, 1.5
Max. Sustained Transfer Rate OD (MB/s)	285MB/s	285MB/s	285MB/s	260MB/s
Rotational Vibration @ 10-1500 Hz (rad/s)	12.5	12.5	12.5	12.5
Power Consumption				
Startup Current, Typical (12V, A)	2	2	2	2
Idle Power, Average (W)	5.5	5.5	5.2	5.2
Average Operating Power (W)	7.7W	7.7W	8W	8W
Standby Mode, Typical (W)	1	1	1	1
Sleep Mode, Typical (W)	1	1	1	1
Power Supply Requirements	+12 V and +5 V	+12 V and +5 V	+12 V and +5 V	+12 V and +5 V
Environmental/Temperature				
Operating Temperature (ambient, min °C)	0	0	0	0
Operating Temperature (drive reported, max °C) ⁴	65	65	65	65
Nonoperating Temperature (ambient, min °C)	-40	-40	-40	-40
Nonoperating Temperature (ambient, max °C)	70	70	70	70
Environmental/Acoustics				
Vibration, Nonoperating: 10Hz to 500Hz (Grms)	2.27	2.27	2.27	2.27
Acoustics, Idle (typical, measured in Idle 1 state) (dBA)	20	20	20	20
Acoustics, Seek (typical) (dBA)	26	26	26	26
Environmental/Shock				
Shock, Operating 2ms (Read/Write) (Gs)	40/40Gs	40/40Gs	40/40Gs	50/50Gs
Shock, Nonoperating, 1ms and 2ms (Gs)	200	200	200	200
Physical				
Height (mm/in)	26.11mm/1.028in	26.11mm/1.028in	26.11mm/1.028in	26.11mm/1.028in
Width (mm/in, max)	101.85mm/4.01in	101.85mm/4.01in	101.85mm/4.01in	101.85mm/4.01in
Depth (mm/in, max)	146.99mm/5.787in	146.99mm/5.787in	146.99mm/5.787in	146.99mm/5.787in
Weight (g/lb, typical)	670g/1.477lb	670g/1.477lb	670g/1.477lb	670g/1.477lb
Carton Unit Quantity	20	20	20	20
Cartons per Pallet/Cartons per Layer	40/8	40/8	40/8	40/8
3 Rescue Data Recovery Services not available in some countries.				





Specifications	16TB	16TB	14TB	14TB
Capacity	16TB	16TB	14TB	14TB
Standard Model Number	ST16000NT001	ST16000NE000	ST14000NT001	ST14000NE0008
Interface	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s
Features			·	
Drive Bays Supported	Unlimited	Up to 24-bay	Unlimited	Up to 24-bay
Recording Technology	CMR	CMR	CMR	CMR
Drive Design (Air or Helium)	Helium	Helium	Helium	Helium
Workload Rate Limit (WRL)	550	300	550	300
Rotational Vibration (RV) Sensors	Yes	Yes	Yes	Yes
Cache (MB)	256	256	256	256
Reliability/Data Integrity			·	
Mean Time Between Failures (MTBF, hours)	2,500,000	1,200,000	2,500,000	1,200,000
Nonrecoverable Read Errors per Bits Read, Max	1 per 10E15	1 per 10E15	1 per 10E15	1 per 10E15
Power-On Hours (per year)	8,760	8,760	8,760	8,760
Sector Size (Bytes per Logical Sector)	512E	512E	512E	512E
Rescue Data Recovery Services (years) ³	3	3	3	3
Limited Warranty (years)	5	5	5	5
Performance				
Spindle Speed (RPM)	7200	7200	7200	7200
Interface Access Speed (Gb/s)	6.0, 3.0, 1.5	6.0, 3.0, 1.5	6.0, 3.0, 1.5	6.0, 3.0, 1.5
Max. Sustained Transfer Rate OD (MB/s)	270MB/s	255MB/s	270MB/s	255MB/s
Rotational Vibration @ 10-1500 Hz (rad/s)	12.5	12.5	12.5	12.5
Power Consumption				
Startup Current, Typical (12V, A)	2	2	2	2
Idle Power, Average (W)	5	5	5	5
Average Operating Power (W)	7.6W	7.6W	7.6W	7.6W
Standby Mode, Typical (W)	1	1	1	1
Sleep Mode, Typical (W)	1	1	1	1
Power Supply Requirements	+12 V and +5 V			
Environmental/Temperature				
Operating Temperature (ambient, min °C)	0	0	0	0
Operating Temperature (drive reported, max °C) ⁴	65	65	65	65
Nonoperating Temperature (ambient, min °C)	-40	-40	-40	-40
Nonoperating Temperature (ambient, max °C)	70	70	70	70
Environmental/Acoustics	-	-	-	-
Vibration, Nonoperating: 10Hz to 500Hz (Grms)	2.27	2.27	2.27	2.27
Acoustics, Idle (typical, measured in Idle 1 state) (dBA)	20	20	20	20
Acoustics, Seek (typical) (dBA)	26	26	26	26
Environmental/Shock				
Shock, Operating 2ms (Read/Write) (Gs)	50/50Gs	50/50Gs	50/50Gs	50/50Gs
Shock, Nonoperating, 1ms and 2ms (Gs)	200	200	200	200
Physical				
Height (mm/in)	26.11mm/1.028in	26.11mm/1.028in	26.11mm/1.028in	26.11mm/1.028in
Width (mm/in, max)	101.85mm/4.01in	101.85mm/4.01in	101.85mm/4.01in	101.85mm/4.01in
Depth (mm/in, max)	146.99mm/5.787in	146.99mm/5.787in	146.99mm/5.787in	146.99mm/5.787in
Weight (g/lb, typical)	670g/1.477lb	670g/1.477lb	670g/1.477lb	670g/1.477lb
Carton Unit Quantity	20	20	20	20
Cartons per Pallet/Cartons per Layer	40/8	40/8	40/8	40/8
3 Rescue Data Recovery Services not available in some countries				





Capacy number1178117810781078107810781078Standard Monde MunderStatason MondeStatason MondeStatason MondeStatason MondeStatason MondeStatason MondeStatason MondeStatason MondeStatason MondeStatason MondeFaundard Monde MunderHuninatedHuninatedHuninatedUp to 24 skyHuninatedBroe Bagin, Aria YangCMRCMRCMRCMRCMRCMRBroe Bagin, Aria YangCMRCMRStataMarciaStatasonBroe Bagin, Aria YangStatason Maxima MondeStatason Maxima MondeMarciaMarciaMarciana Maxima My SarsonStatason Maxima MaximaTaper CellStatason MaximaTaper CellRatisand Maxima My SarsonStatason Maxima MaximaStatason MaximaTaper CellTaper CellRatisand Maxima MaximaStatason MaximaStatason MaximaStatason MaximaTaper CellRatisand Maxima MaximaStatason MaximaStatason MaximaStatason MaximaTaper CellRatisand Maxima MaximaStatason MaximaStatason MaximaStatason MaximaStatason MaximaRatisand Maxima MaximaStatason MaximaStatason MaximaStatason Maxima<	Specifications	12TB	12TB	10TB	10TB	10TB
Instance SATA 602vs SATA 602vs SATA 602vs SATA 602vs SATA 602vs Annual Dark Bays Supported Unimined Up to 24 bay Up to 24 bay Up to 24 bay Up to 24 bay Dark Bays Supported Bree Bays Supported CMR C	Capacity	12TB	12TB	10TB	10TB	10TB
Interface Unitation Up to 24-bay Delta 14-bay Delta 14-bay	Standard Model Number	ST12000NT001	ST12000NE0008	ST10000NT001	ST10000NE0008	ST10000NE000
Brie ByspynchedUtilinitize	Interface	SATA 6Gb/s				
Paceding Technology OMR OMR OMR OMR OMR Dive Dasign (Ar a Helum) Helum Ar Helum Ar Helum Ar Dive Dasign (Ar a Helum) 550 550 550 500 300 Rational Warnion (RV) Servora 288 38 3	Features					
Drive Design (Ar ar Helium) Helium Helium Air Helium Air Workhaad Falle Link (MRL) 550 300 550 300 300 Stational Whorking (NS) Services Yee	Drive Bays Supported	Unlimited	Up to 24-bay	Unlimited	Up to 24-bay	Up to 24-bay
Workland Hale Lind (WHL)559300550300550300Raadinal Varadion (RV) SanaronVeaVeaVeaVeaVeaVeaRaadinal Varadion (RV) Sanaron266256256256256Rability Data Integrity2500.00017.000.0002.000,00017.800.00017.800.000Nonscoverable Read Entry per Bits Read, Max11 per 10E1511 per 10E1511 per 10E1511 per 10E15Perew-On Horu (per year)& 7.008.7008.7008.7008.7005.72E512E<	Recording Technology	CMR	CMR	CMR	CMR	CMR
Notational Vibration (RV) Stensors Yes <	Drive Design (Air or Helium)	Helium	Helium	Air	Helium	Air
Cache (MB) 256 256 256 256 Instally Unit Integen Failures (MTBF, hours) 2,500,000 1,200,000 1,200,000 1,200,000 Nonrecoverable Read Errors per Bits Read, Max 11 per 10E15 12 per 10E15	Workload Rate Limit (WRL)	550	300	550	300	300
Heldbally/Data Integrity Key Heldbally/Data Integrity Loss Loss <thloss< th=""> <thloss< th=""> <thloss< th=""></thloss<></thloss<></thloss<>	Rotational Vibration (RV) Sensors	Yes	Yes	Yes	Yes	Yes
Mean Time Between Falures (MTBF, hours) 2,500,000 1,200,000 1,200,000 1,200,000 1,200,000 1,200,000 Nonecovariab Read Errors por Bits Read, Max 1 por 10E15 5 por 12E	Cache (MB)	256	256	256	256	256
Noncoverable Read Errors par Bits Read, Max 1 par 10E15	Reliability/Data Integrity					
Power-On Hours (per year) 8.760 8.760 8.760 8.760 8.760 Sector Size (Bytes per Logical Sector) 512E 52E 52E 52E	Mean Time Between Failures (MTBF, hours)	2,500,000	1,200,000	2,000,000	1,200,000	1,200,000
Sector Size (Bytes per Logical Sector) 512E 512E 512E 512E 512E Rescue Data Recovery Services(years) ³ 3 3 3 3 3 Unined Warranty (years) 5 5 5 5 Performance 7200 7200 7200 7200 Interface Access Speel (Gb/s) 6.0.3.0.1.5	Nonrecoverable Read Errors per Bits Read, Max	1 per 10E15				
Bescue Data Recovery Services(years) ² 3 3 3 3 3 3 Lmited Warranty (years) 5 5 5 5 5 Performance 2200 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720	Power-On Hours (per year)	8,760	8,760	8,760	8,760	8,760
Linked Warranty (years) 5 5 5 5 5 Parlomance Spindle Speed (RPM) 7200 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720	Sector Size (Bytes per Logical Sector)	512E	512E	512E	512E	512E
Phitomano Prior	Rescue Data Recovery Services(years) 3	3	3	3	3	3
Spindle Speed (RPM) 7200 7200 7200 7200 Interface Access Speed (Gb/s) 6.0, 3.0, 1.5 6.0, 3.0, 1.5 6.0, 3.0, 1.5 6.0, 3.0, 1.5 6.0, 3.0, 1.5 6.0, 3.0, 1.5 6.0, 3.0, 1.5 6.0, 3.0, 1.5 6.0, 3.0, 1.5 6.0, 3.0, 1.5 12.5	Limited Warranty (years)	5	5	5	5	5
Interface Access Speed (Gb/s) 6.0, 3.0, 1.5 7.8 Rotational Vibration @ 10-1500 Hz (radis) 12.5 12.5 12.5 12.5 12.5 12.5 Stardby Mode, Typical (W) 1 1 1 1.17 1 1 1 1.17 1 Stardby Mode, Typical (W) 1 1 1 1.17 1 1 1.17 1 Stardby Mode, Typical (W) 1 1 1 1.17 1 1 1.17 1 1 2.0 2.0	Performance					
Max. Sustained Transfer Rate OD (MB/s) 270MB/s 240MB/s 263MB/s 240MB/s 240MB/s Rotational Vibration @ 10-1500 Hz (rad/s) 12.5	Spindle Speed (RPM)	7200	7200	7200	7200	7200
Rotational Vibration @p 10-1500 Hz (rad/s) 12.5 <th12.5< th=""> 12.5 12.5<!--</td--><td>Interface Access Speed (Gb/s)</td><td>6.0, 3.0, 1.5</td><td>6.0, 3.0, 1.5</td><td>6.0, 3.0, 1.5</td><td>6.0, 3.0, 1.5</td><td>6.0, 3.0, 1.5</td></th12.5<>	Interface Access Speed (Gb/s)	6.0, 3.0, 1.5	6.0, 3.0, 1.5	6.0, 3.0, 1.5	6.0, 3.0, 1.5	6.0, 3.0, 1.5
Power Consumption 2 2 1.8 2 1.8 Startup Current, Typical (12V, A) 5 5 7.8 5 7.8 Average (W) 7.8W 7.8W 10.1W 7.8W 10.1W Standby Mode, Typical (W) 1 1 1 1.17 1 Standby Mode, Typical (W) 1 1 1 1.17 1 Power Supply Requirements +12 V and +5 V Environmental/Temperature 0 0 0 0 0 Operating Temperature (ambient, min *C) 0 0 0 0 0 Operating Temperature (ambient, min *C) 0 0 0 0 0 Nonoperating Temperature (ambient, min *C) 70 70 70 70 70 Environmental/Acoustics 227 2.27 2.27 2.27 2.27 2.27 Acoustics, Idle (typical, measured in Idle 1 state) (dBA) 20 20 28 20 28	Max. Sustained Transfer Rate OD (MB/s)	270MB/s	240MB/s	263MB/s	240MB/s	240MB/s
Startup Current, Typical (12V, A) 2 2 1.8 2 1.8 Idle Power, Average (W) 5 5 7.8 5 7.8 Average Operating Power (W) 7.8W 7.8W 10.1W 7.8W 10.1W Standby Mode, Typical (W) 1 1 1 1.1.7 1 Steen Mode, Typical (W) 1 1 1 1.1.7 1 Been Mode, Typical (W) 1 1 1 1.1.7 1 Power Supply Requirements +12 V and +5 V Environmental/Temperature 0 0 0 0 0 0 Operating Temperature (ambient, min *C) 0	Rotational Vibration @ 10-1500 Hz (rad/s)	12.5	12.5	12.5	12.5	12.5
Ide Power, Average (W) 5 5 7.8 5 7.8 Average Operating Power (W) 7.8W 7.8W 10.1W 7.8W 10.1W Standby Mode, Typical (W) 1 1 1 1.17 1 Step Mode, Typical (W) 1 1 1 1.17 1 Power Supply Requirements +12 V and +5 V Hit 2 V and +5 V<	Power Consumption					
Average Operating Power (W) 7.8W 7.8W 10.1W 7.8W 10.1W Standby Mode, Typical (W) 1 1 1 1 1.17 1 Steep Mode, Typical (W) 1 1 1 1 1.17 1 Power Supply Requirements +12 V and +5 V +12 V an	Startup Current, Typical (12V, A)	2	2	1.8	2	1.8
Standby Mode, Typical (W) 1 <th1< th=""> 1<td>Idle Power, Average (W)</td><td>5</td><td>5</td><td>7.8</td><td>5</td><td>7.8</td></th1<>	Idle Power, Average (W)	5	5	7.8	5	7.8
Sleep Mode, Typical (W) 1 1 1 1 1.17 1 Power Supply Requirements +12 V and +5 V +12 V and +	Average Operating Power (W)	7.8W	7.8W	10.1W	7.8W	10.1W
Power Supply Requirements +12 V and +5 V Environmental/Temperature O	Standby Mode, Typical (W)	1	1	1	1.17	1
Environmental/Temperature Operating Temperature (ambient, min °C) 0 0 0 0 0 Operating Temperature (drive reported, max °C)° 65 65 65 65 65 Nonoperating Temperature (ambient, min °C) -40 -40 -40 -40 -40 Nonoperating Temperature (ambient, max °C) 70 70 70 70 70 Environmental/Acoustics 70 70 70 70 70 Vibration, Nonoperating: 10Hz to 500Hz (Grms) 2.27 2.27 2.27 2.27 2.27 Acoustics, Idle (typical, measured in Idle 1 state) (dBA) 20 20 28 20 28 Acoustics, Seek (typical) (dBA) 26 26 30 26 30 Environmental/Shock 200 200 250 250 300 Physical 50/50Gs 50/50Gs 70/40Gs 70/40Gs 50/40Gs Shock, Operating 2ms (Read/Write) (Gs) 200 200 250 250 300<	Sleep Mode, Typical (W)	1	1	1	1.17	1
Operating Temperature (ambient, min °C) 0	Power Supply Requirements	+12 V and +5 V				
Departing Temperature (drive reported, max °C) ⁴ 65 65 65 65 65 65 Nonoperating Temperature (ambient, min °C) -40 -40 -40 -40 -40 Nonoperating Temperature (ambient, max °C) 70 70 70 70 70 70 Environmental/Acoustics 70 70 70 70 70 70 Vibration, Nonoperating: 10Hz to 500Hz (Grms) 2.27 2.27 2.27 2.27 2.27 2.27 2.27 Acoustics, Idle (typical, measured in Idle 1 state) (dBA) 26 26 30 26 30 Environmental/Shock 50/50Gs 50/50Gs 70/40Gs 70/40Gs 70/40Gs Shock, Operating 2ms (Read/Write) (Gs) 50/50Gs 50/50Gs 70/40Gs 70/40Gs 300 Physical 26.11mm/1.028in 26.1	Environmental/Temperature					
Nonoperating Temperature (ambient, min °C) -40	Operating Temperature (ambient, min °C)	0	0	0	0	0
Nonoperating Temperature (ambient, max °C) 70 2.27 2.27 2.27 2.27 2.27 2.27 2.27 2.27 2.27 2.27 2.27 2.27 <th< td=""><td>Operating Temperature (drive reported, max °C)⁴</td><td>65</td><td>65</td><td>65</td><td>65</td><td>65</td></th<>	Operating Temperature (drive reported, max °C) ⁴	65	65	65	65	65
Environmental/Acoustics Environmental/Acoustics Vibration, Nonoperating: 10Hz to 500Hz (Grms) 2.27 2.27 2.27 2.27 Acoustics, Idle (typical, measured in Idle 1 state) (dBA) 20 20 28 20 28 Acoustics, Seek (typical) (dBA) 26 26 30 26 30 Environmental/Shock 200 200 250 250 300 Shock, Operating 2ms (Read/Write) (Gs) 50/50Gs 50/50Gs 70/40Gs 70/40Gs Shock, Nonoperating, 1ms and 2ms (Gs) 200 200 250 250 300 Physical	Nonoperating Temperature (ambient, min °C)	-40	-40	-40	-40	-40
Vibration, Nonoperating: 10Hz to 500Hz (Grms) 2.27 2.27 2.27 2.27 2.27 Acoustics, Idle (typical, measured in Idle 1 state) (dBA) 20 20 28 20 28 Acoustics, Seek (typical) (dBA) 26 26 30 26 30 Environmental/Shock 50/50Gs 50/50Gs 70/40Gs 70/40Gs 70/40Gs Shock, Operating 2ms (Read/Write) (Gs) 50/50Gs 50/50Gs 70/40Gs 70/40Gs 300 Physical 200 200 200 250 250 300 Physical 26.11mm/1.028in 26.11mm/1.028in 26.11mm/1.028in 26.11mm/1.028in Width (mm/in, max) 101.85mm/4.01in 101.85mm/4.01in 101.85mm/4.01in 101.85mm/4.01in Depth (mm/in, max) 146.99mm/5.787in 146.99mm/	Nonoperating Temperature (ambient, max °C)	70	70	70	70	70
Acoustics, Idle (typical, measured in Idle 1 state) (dBA) 20 20 28 20 28 Acoustics, Seek (typical) (dBA) 26 26 30 26 30 Environmental/Shock 50/50Gs 50/50Gs 70/40Gs 70/40Gs 70/40Gs Shock, Operating 2ms (Read/Write) (Gs) 50/50Gs 50/50Gs 70/40Gs 70/40Gs 70/40Gs Shock, Nonoperating, 1ms and 2ms (Gs) 200 200 250 250 300 Physical 26.11mm/1.028in 2	Environmental/Acoustics					
Acoustics, Seek (typical) (dBA) 26 26 30 26 30 Environmental/Shock 50/50Gs 50/50Gs 70/40Gs 70/40Gs 70/40Gs 70/40Gs 70/40Gs 50/50Gs 50/50Gs 200 250 250 300 26 300 26 300 26 30 20 30 26 30 26 30 26 30 26 10 30 26 10 30 26 10	Vibration, Nonoperating: 10Hz to 500Hz (Grms)	2.27	2.27	2.27	2.27	2.27
Environmental/Shock Environmental/Shock Environmental/Shock Environmental/Shock Environmental/Shock Environmental/Shock Formation (Gs) Formation	Acoustics, Idle (typical, measured in Idle 1 state) (dBA)	20	20	28	20	28
Shock, Operating 2ms (Read/Write) (Gs) 50/50Gs 50/50Gs 70/40Gs 70/40Gs 70/40Gs Shock, Nonoperating, 1ms and 2ms (Gs) 200 200 250 250 300 Physical 26.11mm/1.028in 101.85mm/4.01in 101.85mm/4.01in 101.85mm/4.01in 101.85mm/4.01in 101.85mm/4.01in 101.85mm/4.01in 101.85mm/4.01in 101.85mm/4.01in 101.85mm/4.01in 146.99mm/5.787in 146.99mm/5.787in 146.99mm/5.787in 146.99mm/5.787in 146.99mm/5.787in 146.99mm/5.787in 146.99mm/5.787in 146.99mm/	Acoustics, Seek (typical) (dBA)	26	26	30	26	30
Shock, Nonoperating, 1ms and 2ms (Gs) 200 200 250 250 300 Physical Height (mm/in) 26.11mm/1.028in 101.85mm/4.01in 101.85mm/4.01in 101.85mm/4.01in 101.85mm/4.01in 101.85mm/4.01in 101.85mm/4.01in 101.85mm/4.01in 146.99mm/5.787in 146.	Environmental/Shock					
Physical Physical 26.11mm/1.028in 101.85mm/4.01in 104.99mm/5.787in 146.99mm/5.787in 146.99mm/5	Shock, Operating 2ms (Read/Write) (Gs)	50/50Gs	50/50Gs	70/40Gs	70/40Gs	70/40Gs
Height (mm/in) 26.11mm/1.028in 101.85mm/4.01in 104.99mm/5.787in 146.99mm/5.787in 1200///////////////////////////////////	Shock, Nonoperating, 1ms and 2ms (Gs)	200	200	250	250	300
Width (mm/in, max) 101.85mm/4.01in 101.85m	Physical					
Depth (mm/in, max) 146.99mm/5.787in 146.99mm/5.787i	Height (mm/in)	26.11mm/1.028in	26.11mm/1.028in	26.11mm/1.028in	26.11mm/1.028in	26.11mm/1.028in
Weight (g/lb, typical) 670g/1.477lb 670g/1.477lb 720g/1.59lb 690g/1.521lb 720g/1.59lb Carton Unit Quantity 20 20 20 20 20	Width (mm/in, max)	101.85mm/4.01in	101.85mm/4.01in	101.85mm/4.01in	101.85mm/4.01in	101.85mm/4.01in
Carton Unit Quantity 20 20 20 20 20 20	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, typical)	670g/1.477lb	670g/1.477lb	720g/1.59lb	690g/1.521lb	720g/1.59lb
Cartons per Pallet/Cartons per Layer 40/8 40/8 40/8 40/8 40/8	Carton Unit Quantity	20	20	20	20	20
	Cartons per Pallet/Cartons per Layer	40/8	40/8	40/8	40/8	40/8





Specifications	8TB	8TB	6TB	6TB
Capacity	8TB	8TB	6TB	6TB
Standard Model Number	ST8000NT001	ST8000NE001 ST6000NT001		ST6000NE000
Interface	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s
Features		·		·
Drive Bays Supported	Unlimited	Up to 24-bay	Unlimited	Up to 24-bay
Recording Technology	CMR	CMR	CMR	CMR
Drive Design (Air or Helium)	Air	Air	Air	Air
Workload Rate Limit (WRL)	550	300	550	300
Rotational Vibration (RV) Sensors	Yes	Yes	Yes	Yes
Cache (MB)	256	256	256	256
Reliability/Data Integrity				
Mean Time Between Failures (MTBF, hours)	2,000,000	1,200,000	2,000,000	1,200,000
Nonrecoverable Read Errors per Bits Read, Max	1 per 10E15	1 per 10E15	1 per 10E15	1 per 10E15
Power-On Hours (per year)	8,760	8,760	8,760	8,760
Sector Size (Bytes per Logical Sector)	512E	512E	512E	512E
Rescue Data Recovery Services(years) ³	3	3	3	3
Limited Warranty (years)	5	5	5	5
Performance				
Spindle Speed (RPM)	7200	7200	7200	7200
Interface Access Speed (Gb/s)	6.0, 3.0, 1.5	6.0, 3.0, 1.5	6.0, 3.0, 1.5	6.0, 3.0, 1.5
Max. Sustained Transfer Rate OD (MB/s)	255MB/s	240MB/s	250MB/s	220MB/s
Rotational Vibration @ 10-1500 Hz (rad/s)	12.5	12.5	12.5	12.5
Power Consumption				
Startup Current, Typical (12V, A)	2	2	2	2
Idle Power, Average (W)	7.8	7.8	7.1	7.1
Average Operating Power (W)	10.1W	10.1W	9.3W	9.3W
Standby Mode, Typical (W)	1	1	1	1
Sleep Mode, Typical (W)	1	1	1	1
Power Supply Requirements	+12 V and +5 V	+12 V and +5 V	+12 V and +5 V	+12 V and +5 V
Environmental/Temperature				
Operating Temperature (ambient, min °C)	0	0	0	0
Operating Temperature (drive reported, max °C) ⁴	65	65	65	65
Nonoperating Temperature (ambient, min °C)	-40	-40	-40	-40
Nonoperating Temperature (ambient, max °C)	70	70	70	70
Environmental/Acoustics				
Vibration, Nonoperating: 10Hz to 500Hz (Grms)	2.27	2.27	2.27	2.27
Acoustics, Idle (typical, measured in Idle 1 state) (dBA)	28	28	28	28
Acoustics, Seek (typical) (dBA)	30	30	30	30
Environmental/Shock				
Shock, Operating 2ms (Read/Write) (Gs)	70/40Gs	70/40Gs	70/40Gs	70/40Gs
Shock, Nonoperating, 1ms and 2ms (Gs)	300	300	300	300
Physical				
Height (mm/in)	26.11mm/1.028in	26.11mm/1.028in	26.11mm/1.028in	26.11mm/1.028in
Width (mm/in, max)	101.85mm/4.01in	101.85mm/4.01in	101.85mm/4.01in	101.85mm/4.01in
Depth (mm/in, max)	146.99mm/5.787in	146.99mm/5.787in	146.99mm/5.787in	146.99mm/5.787in
Weight (g/lb, typical)	720g/1.59lb	720g/1.59lb	716g/1.58lb	716g/1.58lb
Carton Unit Quantity	20	20	20	20
Cartons per Pallet/Cartons per Layer	40/8	40/8	40/8	40/8
3 Rescue Data Recovery Services pot available in some countries				





Specifications	4TB	4TB	2TB	2TB
Capacity	4TB	4TB	2TB	2TB
Standard Model Number	ST4000NT001	ST4000NE001 ST2000NT001		ST2000NE001
Interface	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s
Features		<u>.</u>	<u>.</u>	
Drive Bays Supported	Unlimited	Up to 24-bay	Unlimited	Up to 24-bay
Recording Technology	CMR	CMR	CMR	CMR
Drive Design (Air or Helium)	Air	Air	Air	Air
Workload Rate Limit (WRL)	550	300	550	300
Rotational Vibration (RV) Sensors	Yes	Yes	Yes	Yes
Cache (MB)	256	256	256	256
Reliability/Data Integrity				
Mean Time Between Failures (MTBF, hours)	2,000,000	1,200,000	2,000,000	1,200,000
Nonrecoverable Read Errors per Bits Read, Max	1 per 10E15	1 per 10E15	1 per 10E15	1 per 10E15
Power-On Hours (per year)	8,760	8,760	8,760	8,760
Sector Size (Bytes per Logical Sector)	512E	512E	512E	512E
Rescue Data Recovery Services(years) ³	3	3	3	3
Limited Warranty (years)	5	5	5	5
Performance	•	·	·	·
Spindle Speed (RPM)	7200	7200	7200	7200
Interface Access Speed (Gb/s)	6.0, 3.0, 1.5	6.0, 3.0, 1.5	6.0, 3.0, 1.5	6.0, 3.0, 1.5
Max. Sustained Transfer Rate OD (MB/s)	250MB/s	220MB/s	226MB/s	220MB/s
Rotational Vibration @ 10-1500 Hz (rad/s)	12.5	12.5	12.5	12.5
Power Consumption	•	·	·	·
Startup Current, Typical (12V, A)	2	2	2	2
Idle Power, Average (W)	5.5	5.5	3.8	3.8
Average Operating Power (W)	8.7W	8.7W	6.7W	6.7W
Standby Mode, Typical (W)	1	1	1	1
Sleep Mode, Typical (W)	1	1	1	1
Power Supply Requirements	+12 V and +5 V	+12 V and +5 V	+12 V and +5 V	+12 V and +5 V
Environmental/Temperature				
Operating Temperature (ambient, min °C)	0	0	0	0
Operating Temperature (drive reported, max °C) ⁴	65	65	65	65
Nonoperating Temperature (ambient, min °C)	-40	-40	-40	-40
Nonoperating Temperature (ambient, max °C)	70	70	70	70
Environmental/Acoustics				
Vibration, Nonoperating: 10Hz to 500Hz (Grms)	2.27	2.27	2.27	2.27
Acoustics, Idle (typical, measured in Idle 1 state) (dBA)	28	28	28	28
Acoustics, Seek (typical) (dBA)	30	30	30	30
Environmental/Shock	·			
Shock, Operating 2ms (Read/Write) (Gs)	70/40Gs	70/40Gs	70/40Gs	70/40Gs
Shock, Nonoperating, 1ms and 2ms (Gs)	300	300	300	300
Physical	·			
Height (mm/in)	26.11mm/1.028in	26.11mm/1.028in	26.11mm/1.028in	26.11mm/1.028in
Width (mm/in, max)	101.85mm/4.01in	101.85mm/4.01in	101.85mm/4.01in	101.85mm/4.01in
Depth (mm/in, max)	146.99mm/5.787in	146.99mm/5.787in	146.99mm/5.787in	146.99mm/5.787in
Weight (g/lb, typical)	650g/1.431lb	650g/1.431lb	620g/1.37lb	620g/1.37lb
Carton Unit Quantity	20	20	20	20
Cartons per Pallet/Cartons per Layer	40/8	40/8	40/8	40/8
3 Rescue Data Recovery Services not available in some countries.	•			

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