



Specifications	4TB	2TB
Standard Model Number	ST4000NT001	ST2000NT001
Interface	SATA 6Gb/s	SATA 6Gb/s
Features		
Drive Bays Supported	Unlimited	Unlimited
Recording Technology	CMR	CMR
Drive Design (Air or Helium)	Air	Air
Workload Rate Limit (WRL)	550	550
Rotational Vibration (RV) Sensors	Yes	Yes
Cache (MB)	256MB	256MB
Reliability/Data Integrity		
Mean Time Between Failures (MTBF, hours)	2000000 hr	2000000 hr
Nonrecoverable Read Errors per Bits Read, Max	1 per 10E15	1 per 10E15
Power-On Hours (per year)	8,760	8,760
Sector Size (Bytes per Logical Sector)	512E	512E
Rescue Data Recovery Services(years) ³	3	3
Limited Warranty (years)	5	5
Performance		
Spindle Speed (RPM)	7200RPM	7200RPM
Interface Access Speed (Gb/s)	6.0, 3.0, 1.5	6.0, 3.0, 1.5
Max. Sustained Transfer Rate OD (MB/s)	250	226MB/s
Rotational Vibration @ 10-1500 Hz (rad/s)	12.5	12.5
Power Consumption		
Startup Current, Typical (12V, A)	2.0	2.0
Idle Power, Average (W)	5.5	5.5
Average Operating Power (W)	8.7 W	6.7 W
Standby Mode, Typical (W)	1.0 W	1.0 W
Sleep Mode, Typical (W)	1.0 W	1.0 W
Power Supply Requirements	+12 V and +5 V	+12 V and +5 V
Environmental/Temperature		
Operating Temperature (ambient, min °C)	0°C	0°C
Operating Temperature (drive reported, max °C) ⁴	65°C	65°C
Nonoperating Temperature (ambient, min °C)	-40°C	-40°C
Nonoperating Temperature (ambient, max °C)	70°C	70°C
Environmental/Acoustics		
Vibration, Nonoperating: 10Hz to 500Hz (Grms)	2.27	2.27
Acoustics, Idle (typical, measured in Idle 1 state) (dBA)	28	28
Acoustics, Seek (typical) (dBA)	30	30
Environmental/Shock		
Shock, Operating 2ms (Read/Write) (Gs)	70/40 Gs	70/40 Gs
Shock, Nonoperating, 1ms and 2ms (Gs)	300	300
Physical		
Height (mm/in)	26.11 mm/1.028 in	26.11 mm/1.028 in
Width (mm/in, max)	101.85 mm/4.01 in	101.85 mm/4.01 in
Depth (mm/in, max)	146.99 mm/5.787 in	146.99 mm/5.787 in
Weight (g/lb, typical)	650 g/1.431 lb	620 g/1.37 lb
Carton Unit Quantity	20	20
Cartons per Pallet/Cartons per Layer	40/8	40/8