



Specifications	24TB	22TB	20TB	18TB	16TB
Standard Model Number	ST24000NT002	ST22000NT001	ST20000NT001	ST18000NT001	ST16000NT001
Interface	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s
Features					
Drive Bays Supported	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
Recording Technology	CMR	CMR	CMR	CMR	CMR
Drive Design (Air or Helium)	Helium	Helium	Helium	Helium	Helium
Workload Rate Limit (WRL)	550	550	550	550	550
Rotational Vibration (RV) Sensors	Yes	Yes	Yes	Yes	Yes
Cache (MB)	512 MB	512 MB	256MB	256MB	256MB
Reliability/Data Integrity					
Mean Time Between Failures (MTBF, hours)	2500000 hr	2500000 hr	2500000 hr	2500000 hr	2500000 hr
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 (per year)	8,760	8,760	8,760	8,760	8,760
Sector Size (Bytes per Logical Sector)	512E	512E	512E	512E	512E
Rescue Data Recovery Services(years) ³	3	3	3	3	3
Limited Warranty (years)	5	5	5	5	5
Performance					
Spindle Speed (RPM)	7200RPM	7200RPM	7200RPM	7200RPM	7200RPM
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
Max. Sustained Transfer Rate OD (MB/s)	285	285	285	285	270
Rotational Vibration @ 10-1500 Hz (rad/s)	12.5	12.5	12.5	12.5	12.5
Power Consumption					
Startup Current, Typical (12V, A)	2.0 A	2.0 A	2.0 A	2.0 A	2.0 A
Idle Power, Average (W)	6.3 W	6.0 W	5.7	5.0	5.0
Average Operating Power (W)	7.8 W	7.9 W	7.7 W	7.5 W	7.6 W
Standby Mode, Typical (W)	1.1 W	1.2 W	1.2 W	1.0	1.0 W
Sleep Mode, Typical (W)	1.1 W	1.2 W	1.2 W	1.0	1.0 W
Power Supply Requirements	+12 V and +5 V	+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)	5°C	0°C	0°C	0°C	0°C
Operating Temperature (drive reported, max °C) ⁴	65°C	65°C	65°C	65°C	65°C
Nonoperating Temperature (ambient, min °C)	-40°C	-40°C	-40°C	-40°C	-40°C
Nonoperating Temperature (ambient, max °C)	70°C	70°C	70°C	70°C	70°C
Environmental/Acoustics					
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	20	20	20
Acoustics, Seek (typical) (dBA)	26	26	26	26	26
Environmental/Shock					
Shock, Operating 2ms (Read/Write) (Gs)	40/40 Gs	40/40 Gs	40/40 Gs	40	50/50 Gs
Shock, Nonoperating, 1ms and 2ms (Gs)	200	200	200	200	200
Physical					
Height (mm/in)	26.11 mm/1.028 in	26.11 mm/1.028 in	26.11 mm/1.028 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	101.85 mm/4.01 in	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	146.99 mm/5.787 in	146.99 mm/5.787 in	146.99 mm/5.787 in
Weight (g/lb, typical)	685 g/1.512 lb	690 g/1.512 lb	690 g/1.521 lb	680 g/1.499 lb	670 g/1.477 lb
Carton Unit Quantity	20	20	20	20	20
Cartons per Pallet/Cartons per Layer	40/8	40/8	40/8	40/8	40/8