

Data Sheet

Barracuda® XT

No compromise. Speed and capacity for high-performance desktop systems

3TB and 2TB • 64MB cache • SATA 6Gb/s

Key Advantages

- Massive 3TB and 2TB capacity options provide plenty of room for downloading today's storage-craving PC games or storing many hours of high-definition video content.
- The first comprehensive, non-hardware solution to accessing 3TB capacity by using Seagate® DiscWizard™ software
- The 7200-RPM performance platform complements high capacity, delivering a powerful combination of extreme storage and top-end desktop performance.
- A 64MB cache optimizes burst performance and reduces data throughput bottlenecks.
- The SATA 6Gb/s interface enables the use of the industry's newest and fastest hard drive controllers while providing backward compatibility to legacy SATA 1.5Gb/s or 3Gb/s systems.

Best-Fit Applications

- High-performance PC gaming systems
- High-definition video editing and production systems
- Home servers and workstations
- Desktop RAID
- FireWire 800- or eSATA-enabled external storage devices



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A New Addition to the Family

The Barracuda® XT drive now brings 3TB of capacity to the desktop, breaking the 2.1TB desktop storage capacity boundary with the first non-hardware, comprehensive 3TB solution. Seagate® DiscWizard™ software allows computer systems to access 3TB capacity—even on legacy Microsoft XP-based systems. We recognize the need for products tuned to the unique needs of different computing platforms and applications. The Barracuda family of desktop storage options now includes:

- Barracuda Green drives—Engineered specifically for low-power-focused applications, such as direct-attached external storage or low-power-focused desktop computing
- Barracuda drives—The industry standard for mainstream desktop computing offering a wide range of capacities and cache options, a core 7200-RPM performance platform and now supporting the new SATA 6Gb/s interface on all capacities
- Barracuda XT drives—The performance leader in the family, with maximum capacity, cache and SATA performance for the ultimate in desktop computing

Performance, Capacity and Peace of Mind

- Maximize your system performance with the industry's biggest cache available—64MB.
- Help future-proof your storage with the new SATA 6Gb/s interface, which is fully compatible with legacy SATA controllers while also providing an upgrade path to a host of new SATA 6Gb/s motherboards and hard drive controllers.
- Backed by the Seagate 5-Year Limited Warranty, you can rest easy knowing your Barracuda XT hard drive will provide you with years of worry-free operation.

Specifications	3TB ¹	2TB ¹
Model Number	ST33000651AS	ST32000641AS
Interface Options	SATA 6Gb/s NCQ	SATA 6Gb/s NCQ
Performance		
Transfer Rate, Max Ext (MB/s)	600	600
Max Sustained Data Rate OD (MB/s)	149	138
Cache (MB)	64	64
Average Latency (ms)	4.16	4.16
Spindle Speed (RPM)	7200	7200
Configuration/Organization		
Heads/Disks	10/5	8/4
Bytes per Sector	512	512
Reliability/Data Integrity		
Load/Unload Cycles	300K	300K
Nonrecoverable Read Errors per Bits Read, Max	1 per 10E14	1 per 10E14
Annualized Failure Rate (AFR)	0.34%	0.34%
Mean Time Between Failures (hours)	750,000	750,000
Limited Warranty (years)	5	5
Power Management		
Startup Current +12 Peak (A, ±10%)	2.0	2.8
Standby, Average (W)	0.55	0.57
Operating, Average (W)	9.23	9.23
Idle, Average (W)	7.37	6.39
Environmental		
Temperature (°C)		
Operating	5 to 60	5 to 60
Nonoperating	-40 to 70	-40 to 70
Shock (Gs)		
Operating: 2 ms	63	63
Nonoperating: 2 ms	300	300
Acoustics (bels – sound power)		
Idle	2.7	2.7
Seek	2.9	2.9
Physical		
Height (in/mm)	1.028/26.1	1.028/26.1
Width (in/mm)	4.010/101.85	4.010/101.85
Depth (in/mm)	5.787/146.99	5.787/146.99
Weight (lb/kg)	1.543/700	1.543/700

¹ One terabyte, or TB, equals one trillion bytes when referring to hard drive capacity.

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