

Data Sheet

## Barracuda® XT

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

**2 TB • 64-MB cache • SATA 6 Gb/s**

### Key Advantages

- A massive 2-TB drive capacity provides plenty of room for downloading today's space-hungry PC games or up to 45 hours of 1080i, HD-DVCPRO-encoded, high-definition video
- The 7,200-RPM performance platform complements high capacity, delivering a powerful combination of extreme storage and top-end desktop performance
- A 64-MB cache optimises burst performance and reduces data throughput bottlenecks
- The SATA 6-Gb/s interface enables the use of the industry's newest and fastest hard drive controllers while providing backward compatibility to legacy SATA 1.5-Gb/s or 3-Gb/s systems
- Configurable with Seagate® SeaTools™ software — users can optimise the drive configuration and tune for capacity or performance for the ultimate in customer choice and control



### 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 legendary Barracuda family of hard drives from Seagate is expanding! As storage becomes more prolific and a fundamental enabler of the digital ecosystem, we recognise the requirement for products tuned to the unique needs of different computing platforms and applications. The Barracuda family of desktop storage options now includes:

- Barracuda LP drives — Engineered specifically for low-power-focused applications, such as direct-attached external storage or low-power-focused desktop computing
- Barracuda 7200 drives — The industry standard for mainstream desktop computing, offering a wide range of capacities and cache options, a core 7,200-RPM performance platform and standard SATA 1.5-Gb/s and SATA 3-Gb/s performance interfaces
- Barracuda XT drives — The performance leader in the Barracuda family, offering maximum capacity, maximum cache and maximum SATA performance for the ultimate in desktop computing performance

## Performance, Capacity and Peace of Mind

- Maximise your system performance with the industry's biggest cache available: 64 MB
- Future-proof your storage with the new SATA 6-Gb/s interface, which is fully compatible with legacy SATA controllers while also providing an upgrade path to a host of new SATA 6-Gb/s motherboards and hard drive controllers
- Backed by the Seagate Five-Year Limited Warranty and boasting a massive 2 TB of storage capacity, you can rest easy knowing that your Barracuda XT hard drive will provide you with more than ample space and years of worry-free operation

[www.seagate.com](http://www.seagate.com)

Toll free: 00 8004 SEAGATE (732 4283)

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Specifications	2 TB <sup>1</sup>
Model Number	ST32000641AS
Interface Options	SATA 6-Gb/s NCQ
<b>Performance</b>	
Transfer Rate, Max Ext (MB/s)	600
Sustained Data Rate OD (MB/s)	138
Cache (MB)	64
Average Latency (ms)	4.16
Spindle Speed (RPM)	7,200
<b>Configuration/Organisation</b>	
Heads/Discs	8/4
Bytes per Sector	512
<b>Reliability/Data Integrity</b>	
Load/Unload Cycles	300K
Non-recoverable Read Errors per Bits Read, Max	1 per 10 <sup>14</sup>
Annualised Failure Rate	0.34%
Mean Time Between Failures (hours)	750,000
Limited Warranty (years)	5
<b>Power Management</b>	
Startup Current +12V Peak (A, ±10%)	2.8
Seek, Average (W)	7.3
Operating, Average (W)	9.23
Idle, Average (W)	6.39
<b>Environmental</b>	
Temperature (°C)	
Operating	-5 to 60
Non-operating	-40 to 70
Shock (Gs)	
Operating: 2 ms	63
Non-operating: 1 ms	300
Acoustics (bels – sound power)	
Idle	2.8
Seek	3.2
<b>Physical</b>	
Height (in/mm)	1.028/26.1
Width (in/mm)	4.00/101.6
Depth (in/mm)	5.787/146.99
Weight (lb/g)	1.543/700

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

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