

Data Sheet

Barracuda® XT

No Compromise. Speed and Capacity
for High-Performance Desktop Systems

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 access 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 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

With an Additional Performance Kick

- 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.

| Specifications | 3TB ¹ | 2TB ¹ |
|---|------------------|------------------|
| Model Number | ST33000651AS | ST32000641AS |
| Interface | 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 |
| Power Management | | |
| Startup Current (12V typical, 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/g) | 1.543/700 | 1.543/700 |
| Carton Unit Quantity | 20 | 20 |
| Cartons per Pallet | 40 | 40 |
| Cartons per Layer | 8 | 8 |

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

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