

## Product Overview

# Barracuda® 7200.12

**The industry's leading combination of capacity, performance and reliability**

### Key Features and Benefits

- Sustainable technology for a green world:
  - Typically 70 percent or more of the materials used to build the drive is recycled.
  - Complies with the RoHS directive and several non-regulatory restrictions.
- 12th generation of the world's most popular desktop hard drive
- Ships with the most reliable and proven perpendicular magnetic recording technology
- Delivers high performance:
  - 125-MB/s maximum sustained data rate
  - Up to 3-Gb/s instantaneous burst
  - 32-MB cache on 1-TB and 750-GB drives, 16-MB cache on 500-GB and 320-GB drives, 8-MB cache on 250-GB and 160-GB drives

### Key Applications

- Workstations
- Desktop RAID
- Gaming PCs
- High-end PCs
- Mainstream PCs
- USB/FireWire/eSATA personal external storage



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## To Learn More:

### Perpendicular Recording

The Barracuda 7200.12 drive uses fourth-generation Seagate perpendicular magnetic recording technology to increase capacity and dependability by storing data bits vertically rather than horizontally.

## The Seagate Advantage

By now the world knows that Seagate® Barracuda® 7200 drives, from the world's premier storage provider, deliver years of reliable service and high performance. This is a product family that has been strengthened and refined over 12 generations. It embodies the highest levels of reliability, performance and capacity. And this latest generation is a leader in environmentally friendly storage.

The drive is available in capacities of 1 TB and 750 GB with 32-MB cache, 500 GB and 320 GB with 16-MB cache, and 250 GB and 160 GB with 8-MB cache. The Barracuda 7200.12 drive is an ideal choice for workstations, desktop RAID, gaming PCs, high-end PCs, mainstream PCs and USB/FireWire/eSATA external storage.

## Advantages of Perpendicular Recording

After years of pioneering research at Seagate, perpendicular recording is now a proven technology. It increases capacity and dependability by storing data vertically, rather than horizontally. And vertically stored data bits mean increased data density—which means higher performance to increase productivity.

Specifications	
Capacity	1 TB, 750 GB, 500 GB, 320 GB, 250 GB and 160 GB
Interface	SATA 3Gb/s NCQ
Cache (MB)	32 MB (1 TB, 750 GB) 16 MB (500 and 320 GB) 8 MB (250 and 160 GB)
Sustained Data Rate (MB/s)	Up to 125
Spindle Speed (RPM)	7200
Shock, Operating: 2 ms (Gs)	70
Shock, Nonoperating: 1 ms (Gs)	300 (1 TB)
Acoustics, Idle (bels)	2.5 (1 TB)
Acoustics, Seek (bels)	2.7 (1 TB)

## Additional Features

- Best-in-class environmental specifications and reliability features
- Adaptive Fly Height offers consistent read/write performance from the beginning to the end of your computing workload.
- Clean Sweep automatically calibrates your drive.
- Enhanced G-Force Protection™ defends against handling damage.
- Seagate SoftSonic™ motor enables ultra-quiet operation.

## The Eco-Friendly Choice

The Barracuda 7200.12 drive delivers excellent power savings without sacrificing drive or system performance, giving customers the ability to manufacture eco-friendly PC systems and external storage systems that meet energy savings requirements.

Seagate hard drives have long been produced with the environment in mind, and not just with low power consumption. With Seagate and the Barracuda 7200.12 drive, our customers can have the best of both worlds—top hard-drive performance and the satisfaction of knowing they are using a high-capacity drive with a very small eco-footprint.

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

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