



## Product Overview

# BARRACUDA 7200.10

## The highest-capacity 3.5-inch disc drive

Where performance and reliability unite. The Seagate Barracuda 7200.10 perpendicular disc drive boasts the industry's highest capacity—up to 750GB per drive—to provide pure digital storage for all your desktop application needs.

### Key Features and Benefits

- Highest capacity in a single disc drive—up to 750GB of digital storage space
- The first 3.5-inch drive to support vertically-stored data bits, enabling industry-leading capacity in existing standard form factors
- A range of options from 8- or 16-Mbyte cache to interface choices of ATA/100, SATA 1.5Gb/s or SATA 3Gb/s to meet your specific needs
- Seagate SoftSonic motor enables whisper-quiet operation
- Enhanced G-Force Protection defends against handling damage
- Backed by a five-year warranty

### Key Specifications

- Family of capacities from 200GB to 750GB
- Interfaces: SATA 3Gb/s, SATA 1.5Gb/s, Parallel ATA 100
- 8- and 16-Mbyte cache buffer options
- Maximum sustained data transfer rate: 78 Mbytes/sec
- Operating shock: 68 Gs

### The Seagate Advantage

High-capacity Barracuda 7200 disc drives, from the world's premier storage provider, deliver years of reliable service and high performance. Using advanced manufacturing techniques and extensive design experience, Seagate® engineers have built the world's tenth-generation 7200-RPM desktop disc drive to provide the industry's leading combination of capacity, performance and reliability.



# BARRACUDA 7200.10

The highest-capacity 3.5-inch disc drive



## Product Description

With up to 750GB of pure digital storage in a single drive, the Barracuda 7200.10 is the largest, most reliable disc drive around. New perpendicular recording technology supports vertically stored data bits, enabling increased areal density—and dependability—for workstations and performance PCs.

## Powerful Features

Best-in-class reliability can be assured by a number of features:

- Perpendicular recording increases data density while decreasing moving parts for a more dependable drive.
- Adaptive Fly Height offers consistent read/write performance from the beginning to end of your computing workloads.
- Clean Sweep automatically calibrates your drive each time you power up.
- Directed Offline Scan runs diagnostics when storage access is not required.
- The first 3.5-inch perpendicular recording drive combined with the highest available capacity reduces system repairs and storage upgrades.
- Seagate SoftSonic motor enables whisper-quiet operation.
- Enhanced G-Force Protection defends against handling damage.
- The product is backed by a five-year warranty.

## To Learn More:

### Perpendicular Recording

The Barracuda 7200.10 is the first Seagate 3.5-inch desktop drive built on perpendicular technology, and the fifth Seagate perpendicular drive overall.

Specifications	
Capacity (GB)	200, 250, 320, 400, 500, 750
Interface	Ultra ATA/100, SATA/150 (SATA 1.5Gb/s) or SATA/300 (SATA 3Gb/s) with NCQ (Native Command Queuing)
Cache (Mbytes)	8, 16
Spindle Speed (RPM)	7200
Shock, Operating (Gs)	68
Shock, Nonoperating (Gs)	350 (200, 250, 320GB) 300 (400, 500, 750GB)
Acoustics, Idle (bels)	2.7 (750GB, 500GB) 2.5 (400GB and below)
Operating Temperature (°C)	0 to 60
Annualized Failure Rate (AFR)	0.34%

## Applications

Your application needs determine the capacity, performance and interface requirements of your disc drive. The Barracuda 7200.10 offers multiple configurations to ensure optimal application performance for a wide range of uses.

### Desktop and High-Performance PCs

- Gamer PCs
- Workstations
- High-end PCs
- Desktop RAID
- Mainstream PCs

### Low-Cost Servers and External Storage

- xATA servers
- USB/FireWire/eSATA external storage

## Advantages of Perpendicular Recording

After more than ten years of research, 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—and more gigabytes per platter.

## Market Opportunity

High-capacity demand will continue to increase as storage needs proliferate, with increased demand coming from:

- Consumer and gamer PCs
- High-end PCs and media workstations
- Low-cost xATA servers
- External (USB/FireWire/eSATA) storage

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

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