

Product Overview

Barracuda 7200.10

The highest-capacity 3.5-inch hard drive

Where performance and reliability unite. The Seagate Barracuda 7200.10 drive family with perpendicular recording is the industry's most reliable, comprehensive and highest-capacity desktop product line—up to 750 GB per drive.

Key Features and Benefits

- Highest capacity in a single hard drive—up to 750 GB
- The industry's first 3.5-inch desktop drive to utilize perpendicular recording (PMR), enabling industry-leading reliability and the highest capacity in existing standard form factors
- Industry-leading PMR technology results in enhanced reliability
- A range of options from 2-, 8- or 16-MB cache to interface choices of ATA/100, SATA 1.5Gb/s or SATA 3Gb/s
- Seagate SoftSonic motor enables whisper-quiet operation
- Enhanced G-Force Protection defends against handling damage
- Backed by a 5-year warranty

Key Specifications

- Comprehensive family of capacities from 80 GB to 750 GB
- Interfaces: SATA 3Gb/s, SATA 1.5Gb/s, Parallel ATA/100
- 2-, 8- and 16-MB cache buffer options
- Maximum sustained data transfer rate: 78 MB/s
- Operating shock: up to 68 Gs

The Seagate Advantage

Seagate® Barracuda 7200 drives, from the world's premier storage provider, deliver years of reliable service and high performance. Seagate engineers have built the world's first and most comprehensive desktop line that leverages perpendicular recording technology. The Barracuda 7200.10 family provides an industry-leading combination of capacity, performance and reliability.



BARRACUDA 7200.10

The highest-capacity 3.5-inch hard drive



Product Description

With up to 750 GB of digital storage in a single drive, the Barracuda 7200.10 desktop family is the largest, most comprehensive and most reliable hard drive line. New perpendicular recording technology utilizes vertically stored data bits, enabling increased areal density and greater dependability.

Powerful Features

Best-in-class reliability is enabled by a number of features:

- Perpendicular recording enables industry-leading lifetime cost of ownership.
- Adaptive Fly Height optimizes head fly height over a wide temperature range, improving drive reliability and consistency of writing and reading data.
- Clean Sweep automatically calibrates your drive each time you power up.
- Directed Offline Scan runs diagnostics when storage access is not required.
- Perpendicular recording 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 5-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)	80, 160, 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 (MB)	2, 8, 16
Spindle Speed (RPM)	7200
Shock, Operating (Gs)	up to 68
Shock, Nonoperating (Gs)	350 (320 GB and below) 300 (400, 500, 750 GB)
Acoustics, Idle (bels)	2.8 (750, 500 GB)—Performance Mode 2.7 (400 GB)—Performance Mode 2.5 (320, 250, 200 GB)—Performance Mode 2.8 (80, 160 GB)—Quiet Mode
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 drive. The Barracuda 7200.10 offers multiple configurations for a wide range of uses.

Desktop and High-Performance PCs

- Gamer PCs
- Workstations
- High-end PCs
- Desktop RAID
- Mainstream PCs
- Point-of-sale devices/ATMs

Low-Cost Servers and External Storage

- SATA/xATA servers
- USB/FireWire/eSATA external storage

Advantages of Perpendicular Recording

After more than ten 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.

Market Opportunity

Capacity demands will continue to increase as storage needs proliferate, with increased demand coming from:

Consumer

- Digital photos, music and video
- Email
- Gaming

Business

- Email and other business data
- Record keeping
- Graphic editing and design
- CAD/CAM workstations
- Multimedia creation and presentation

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