

Product Overview

Barracuda® 7200.11

Up to 1.5 TB of high-performing, eco-friendly desktop storage — so right for so many different applications

Eleven generations later, the legendary Seagate Barracuda family delivers the whole package: a to-die-for blend of leading-edge technology and lowest total cost of ownership, with the first 1.5-TB desktop drive available anywhere.

Key Features and Benefits

- Provides the industry's highest capacity — up to 1.5 TB (also 1 TB and 750, 640, 500, 320 and 160 GB)
- Ships with the most reliable and proven perpendicular magnetic recording (PMR) technology
- Delivers high performance
 - Up to 120-MB/s sustained data rate
 - 32-MB and 16-MB cache buffer (8-MB on the 160-GB drive)
- Environmentally friendly
 - Consumes up to 43 per cent less power than previous products when idle, enabling customers to build low-power systems
 - Meets RoHS requirements
- Leverages best combination of technology (aerial density, PMR) and proven components for volume availability

Key Applications

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



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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 11 generations. It embodies the highest levels of reliability, performance and capacity. And, this latest generation marks the single largest capacity jump in the more than half-century history of hard drives — a half-terabyte increase from the previous high of 1 TB, thanks to the capacity-boosting power of perpendicular magnetic recording technology.

The drive is also available in capacities of 1 TB and 750, 640, 500, 320 and 160 GB. With its amazingly wide range of capacities and configurations, the Barracuda 7200.11 drive is an ideal choice for mainstream PCs, performance PCs, gaming machines and workstations, even desktop RAID and external storage devices.

To Learn More:

Perpendicular Recording

The Barracuda 7200.11 drive uses second-generation Seagate perpendicular magnetic recording technology to increase capacity and dependability by storing data bits vertically rather than horizontally.

Specifications	
Capacity	1.5 and 1 TB, and 750, 640, 500, 320 and 160 GB
Interface	SATA 3-Gb/s NCQ
Cache (MB)	32, 16 and 8
Sustained Data Rate (MB/s)	up to 120
Spindle Speed (RPM)	7200
Shock, Operating: 2 ms (Gs)	up to 65
Shock, Non-operating: 1 ms (Gs)	up to 350
Acoustics, Idle (bels)	2.7 (1.5 TB, 1 TB, 750 GB and 640 GB) 2.5 (500, 320 and 160 GB)
Acoustics, Seek (bels)	2.9 (1.5 TB, 1 TB and 750 GB) 2.8 (640 GB and 500 GB) 2.6 (320 and 160 GB)
Operating Temperature (°C)	0 to 60
MTBF (hours)	750,000
Annualised Failure Rate (AFR):	0.34%

Additional Features

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

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.

The Eco-Friendly Choice

The Barracuda 7200.11 drive delivers up to 43 per cent power savings over the previous Seagate desktop generation without sacrificing drive or system performance, giving customers the ability to manufacture eco-friendly 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. Like all other Seagate drives, the Barracuda 7200.11 product family complies with the Restriction of Hazardous Substance (RoHS) Directive — a regulation that limits the use of hazardous materials in electronic goods.

With Seagate and the Barracuda 7200.11 drive, our customers can have the best of both worlds — top hard-drive performance and the satisfaction of knowing that they are using a high-capacity drive with a very small eco-footprint.

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