

Data Sheet

Barracuda® 7200.11

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

**1.5 TB, 1 TB, 750 GB, 640 GB, 500 GB, 320 GB,
160 GB • 7,200 RPM • SATA 3-Gb/s with NCQ**

Key Advantages

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

Best-fit Applications

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



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Specifications	1.5 TB ¹	1 TB ¹	750 GB ¹	640 GB ¹	500 GB ¹	320 GB ¹	160 GB ¹
Model Number	ST31500341AS	ST31000333AS ST31000340AS	ST3750330AS	ST3640323AS	ST3500320AS	ST3320613AS	ST3160813AS
Interface Options	SATA 3-Gb/s NCQ	SATA 3-Gb/s NCQ	SATA 3-Gb/s NCQ	SATA 3-Gb/s NCQ	SATA 3-Gb/s NCQ	SATA 3-Gb/s NCQ	SATA 3-Gb/s NCQ
Performance							
Transfer Rate, Max Ext (MB/s)	300	300	300	300	300	300	300
Sustained Data Rate OD (MB/s)	120	115, 105 ²	105	115	105	115	115
Cache (MB)	32	32	32, 16 ³	32	32, 16 ³	16	8
Spindle Speed (RPM)	7,200	7,200	7,200	7,200	7,200	7,200	7,200
Reliability/Data Integrity							
Contact Start-Stops	50,000	50,000	50,000	50,000	50,000	50,000	50,000
Annualised Failure Rate	0.34%	0.34%	0.34%	0.34%	0.34%	0.34%	0.34%
Mean Time Between Failures (hours)	750,000	750,000	750,000	750,000	750,000	750,000	750,000
Physical							
Height (in/mm)	1.02/26.11	1.02/26.11	1.02/26.11	1.02/26.11	1.02/26.11	0.787/20.00	0.787/20.00
Width (in/mm)	4.00/101.6	4.00/101.6	4.00/101.6	4.00/101.6	4.00/101.6	4.00/101.6	4.00/101.6
Depth (in/mm)	5.787/146.99	5.787/146.99	5.787/146.99	5.787/146.99	5.787/146.99	5.787/146.99	5.787/146.99
Weight (lb/kg)	1.4/0.64	1.4/0.64	1.4/0.64	0.838/0.380	1.2/0.54	0.838/0.380	0.805/0.365

¹ One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to hard drive capacity.

² Sustained Data Rate OD is 115 MB/s for model number ST31000333AS and 105 MB/s for ST31000340AS.

³ Not available through distribution

This Barracuda Generation Brings a Huge 1.5 TB

This is a drive that will last ages; it will take ages to fill it up. In one bold move, Seagate provides the largest single capacity jump in the 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 Eco-Friendly Choice

The Barracuda 7200.11 drive delivers up to 43 per cent power savings over the previous Seagate desktop generation without sacrificing performance, giving customers the ability to manufacture eco-friendly PC systems and external storage systems that meet energy-savings requirements.

Like all other Seagate® drives, the Barracuda 7200.11 product family complies with the Restriction of Hazardous Substance (RoHS) directive that limits the use of hazardous materials in electronic goods.

With the Barracuda 7200.11 drive, our customers can have the best of both worlds: top hard-drive performance and a high-capacity drive with a very small eco-footprint.

At Seagate, we are committed to minimising the impact of our products and operations on the environment. We have implemented production efficiency measures, such as replacing or renovating less efficient equipment, resulting in a 20 per cent increase in production efficiency on a per-hard-drive basis. In just six months, this delivered a savings of 158.93 million kWh or enough energy to power nearly 15,000 US homes for one year. We have also deployed aggressive waste reduction and recycling programmes in facilities worldwide.

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