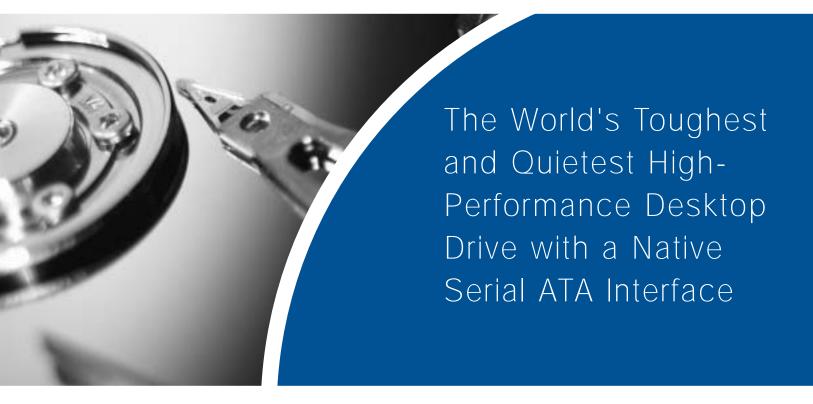


Barracuda® 7200.7 and Barracuda 7200.7 Plus

Best combination of performance, acoustics and reliability



160, 120, 80, 60 and 40 Gbytes • 7,200 RPM • Ultra ATA/100 and SATA/150

Key Advantages

- · Serial ATA interface for ultra-fast desktop performance, up to 160-Gbyte capacity
- · A proven rugged design for increased reliability
- · The industry's only sixth-generation FDB motor
- 3D Defense System[™] for comprehensive protection against handling damage and data loss
- Inaudible acoustics with sound barrier technology (SBT), including the Seagate® exclusive SoftSonic™ motor

Best-Fit Applications

- Mainstream and High-Performance PCs
- · Entry-Level ATA Servers, including RAID
- · Cost-Effective Network Attached Storage
- PC Gaming Systems
- · Home Media Servers







60GB¹

ST360014A

40GB1

ST340014A

Barracuda 7200.7 and Barracuda 7200.7 Plus

Specifications

High-speed, high-capacity desktop drives with a native Serial ATA interface

Model Number

The World's Only Native **Serial ATA Interface**

- · Meeting tomorrow's performance needs today
- · Point-to-point interface eliminates need for jumper settings
- · Easy-to-use connectors for simple installation
- 100 percent software compatible with existing PCs
- · Thinner, longer cable provides improved system airflow

The Seagate 3D Defense System— No One Does More to Protect Your Drives

DRIVE DEFENSE

- SeaShell[™] packaging for drive protection against 1,000 Gs of nonoperational shock
- · Enhanced G-Force Protection for further drive security

DATA DEFENSE

- · Error-correction code (ECC)
- · Safe Sparing

DIAGNOSTIC DEFENSE

- SeaTools Suite diagnostic software
- · Web-based tools
- · S.M.A.R.T. Technology
- · Enhanced Drive Self-Test (NDST)

World-Class Technical Support

- · Certified, experienced support staff
- Rated "Above Average to Excellent" by 95 percent of our customers
- · Support lines with shortest wait times
- · Individually archived case histories for quick reference
- · Web-based Q&A forum and autoreply e-mail
- · Seagate Design Service Centers (DSC) to help companies transform innovative ideas into viable products

| Woder Number | ST3160023A ² ST3160023AS | ST3120022A ST3120026A ² ST3120026AS | ST380011A | 31300014A | 31340014A |
|--|--|--|---------------------------|------------------------|------------------------|
| Interface/External Transfer Rate (Mbytes/sec) | Ultra ATA/100 Ultra ATA/100 SATA/150 | Ultra ATA/100 Ultra ATA/100 SATA/150 | Ultra ATA/100 SATA/150 | Ultra ATA/100 | Ultra ATA/100 |
| Performance | | | | | |
| Transfer Rate | | | | | |
| Maximum Internal (Mbits/sec) | 683 | 683 | 683 | 683 | 683 |
| Maximum External (Mbytes/sec) | 100/150(SATA) | 100/150(SATA) | 100/150(SATA) | 100 | 100 |
| Sustained Transfer Rate (Mbytes/sec) | 32 to 58 | 32 to 58 | 32 to 58 | 32 to 58 | 32 to 58 |
| Cache, Multisegmented (Mbytes) | 2, 8, 8 (SATA) | 2, 8, 8 (SATA) | 2, 8 (SATA) | 2 | 2 |
| Average Seek (msec) | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 |
| Average Latency (msec) | 4.16 | 4.16 | 4.16 | 4.16 | 4.16 |
| Spindle Speed (RPM) | 7,200 | 7,200 | 7,200 | 7,200 | 7,200 |
| Configuration/Organization | | | | | |
| Discs/Heads | 2/4 | 2/3 | 1/2 | 1/2 | 1/1 |
| Bytes per Sector | 512 | 512 | 512 | 512 | 512 |
| Logical CHS | 16,383/16/63 | 16,383/16/63 | 16,383/16/63 | 16,383/16/63 | 16,383/16/63 |
| Recording Method | EPRML (16/17) | EPRML (16/17) | EPRML (16/17) | EPRML (16/17) | EPRML (16/17) |
| Reliability/Data integrity | | | | | |
| Contact Start-Stops | 50,000 | 50,000 | 50,000 | 50,000 | 50,000 |
| 3D Defense System | Yes | Yes | Yes | Yes | Yes |
| Nonrecoverable Read Errors per Bits Read | 1 per 10 ¹⁴ | 1 per 10 ¹⁴ | 1 per 10 ¹⁴ | 1 per 10 ¹⁴ | 1 per 10 ¹⁴ |
| Limited Warranty (years) | 1/3/1 | 1/3/1 | 1 | 1 | 1 |
| Power Management | | | | | |
| +12 VDC ±10% (amps max) | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| +5 VDC ±5% (amps max) | NA | NA | NA | NA | NA |
| Power Management (watts) Seek | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 |
| Read/Write | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 |
| Idle/Standby | 7.5/.7 | 7.5/.7 | 7.5/.7 | 7.5/.7 | 7.5/.7 |
| Environmental | | | | | |
| Temperature, Operating (°C) | 0 to 60 | 0 to 60 | 0 to 60 | 0 to 60 | 0 to 60 |
| Temperature, Nonoperating (°C) | -40 to 70 | -40 to 70 | -40 to 70 | -40 to 70 | -40 to 70 |
| Shock, Operating: 2 msec (Gs) | 63 | 63 | 63 | 63 | 63 |
| Shock, Nonoperating: 2 msec (Gs) | 350 | 350 | 350 | 350 | 350 |
| Acoustics Idle (bels—sound power) | 2.5 | 2.5 | <2.5 | <2.5 | <2.5 |
| Quiet Seek (bels—sound power) | 2.8 | 2.8 | 2.5 | 2.5 | 2.5 |
| Performance Seek (bels—sound power) | 3.4 | 3.4 | 3.1 | 3.1 | 3.1 |
| Physical | | | | | |
| Height (in/mm) | 1/26.1 | 1/26.1 | 1/26.1 | 1/26.1 | 1/26.1 |
| Midth (in/mm) | 4/101 OF | 4/101 OF | 4/101 OF | 4/101 OF | 4/101 OF |

160GB1

ST3160021A

120GB1

ST3120022A

80GB¹

ST380011A

- 1. Capacity calculated as 1 Gbyte = 10° bytes
- 2. Barracuda 7200.7 Plus

Width (in/mm)

Depth (in/mm)

4/101.85

1.4/635

5.78/146.56

Seagate Technology LLC 920 Disc Drive, Scotts Valley, California 95066, United States, 831-438-6550 ASIA/PACIFIC Seagate Technology International Ltd. 151 Lorong Chuan, New Tech Park #06-01, Singapore 556741, 65-6488-7200 EUROPE, MIDDLE EAST AND AFRICA Seagate Technology SA 62 bis, avenue André Morizet, 92643 Boulogne-Billancourt Cedex, France, 33 1-41 86 10 00

4/101.85

1.2/544

5.78/146.56

4/101.85

1.2/544

5.78/146.56

4/101.85

1.2/544

5.78/146.56

4/101.85

1.4/635

5.78/146.56