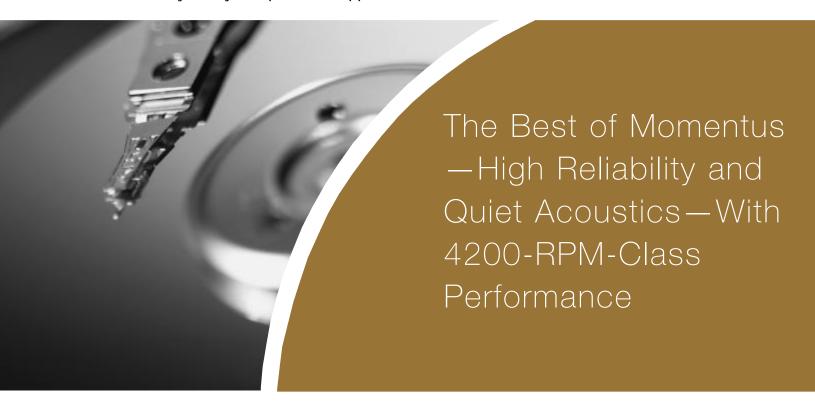


Momentus 42

Harness the power of experience, commitment and innovation from the industry's only independent supplier of notebook drives



40 and 20 Gbytes • 4200 RPM • 2.5-Inch Notebook

Key Advantages

- 4200-RPM-class performance powers common home and office applications with ease
- Inaudible acoustics provided by proven Seagate® SoftSonic™ FDB motor and QuietStep™ ramp load technology
- · Robust design and 225-G operational shock tolerance to withstand today's rugged notebook operating environment
- · Available from the industry's only independent supplier of notebook disc drives

Best-Fit Applications

- · Notebook computers
- · External storage
- Digital audio
- Tablet PCs







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

DRIVE DEFENSE

- · QuietStep ramp load technology provides additional protection against shock while delivering whisper-quiet load/unload acoustics.
- · G-Force Protection guards the drive against nonoperating shock and prevents damage to the motor, heads, head-arm, clamp and discs during shipping, handling and daily operation.

DATA DEFENSE

- ECC (error-correction code) performs fast on-the-fly data validation and error checking for reliable data storage and retrieval.
- Safe Sparing ensures data is not compromised by reserving spare sectors on a drive and substituting them if defects are detected in other sectors.
- CBDS (continuous background defect scanning) proactively identifies and eliminates defects.

DIAGNOSTIC DEFENSE

- SeaTools[™] Suite diagnostic software is designed to reduce drive returns, decrease drive repair costs and protect data.
- · Web-based tools enable users to identify and solve common system-related issues.
- Enhanced S.M.A.R.T. (Self-Monitoring, Analysis and Reporting Technology) predicts and prevents problems transparently before they affect the end user.
- NDST (Enhanced Drive Self-Test) reduces diagnostic time.

World-Class Technical Support

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

| Specifications | 40 GB¹ | 20 GB1 |
|--|----------------------------------|----------------------------------|
| Model Number | ST94019A | ST92014A |
| Interface (Mbytes/sec) | Ultra ATA/100 | Ultra ATA/100 |
| Performance | | |
| Transfer Rate | | |
| Maximum Internal (Mbytes/sec) | 48.25 | 48.25 |
| Maximum External (Mbytes/sec) | 100 | 100 |
| Sustained Transfer Rate (Mbytes/sec) | 33.0 | 33.0 |
| Cache, Multisegmented (Mbytes) | 2 | 2 |
| Average Seek (msec) | 12.0 | 12.0 |
| Average Latency (msec) | 5.6 | 5.6 |
| Performance Level ² | 4,200 | 4,200 |
| Configuration/Organization | | |
| Discs/Heads | 1/2 | 1/1 |
| Bytes per Sector | 512 | 512 |
| Logical CHS | 16,383/16/63 | 16,383/16/63 |
| Recording Method | RLL 0,11 | RLL 0,11 |
| Reliability/Data integrity | | · |
| Head-Rest Method | QuietStep ramp load | QuietStep ramp load |
| 3D Defense System™ | Yes | Yes |
| Nonrecoverable Read Errors per Bits Read | 1 per 10 ¹⁴ bits read | 1 per 10 ¹⁴ bits read |
| Power Management | | |
| +5 VDC ±5% (amps max) | 1.2 | 1.2 |
| Power Management (watts) Seek | 2.4 | 2.4 |
| Read/Write | 2.4 | 2.4 |
| Low Power Idle/Standby | .97/.36 | .97/.36 |
| Environmental | | |
| Temperature, Operating (°C) | 5 to 55 | 5 to 55 |
| Temperature, Nonoperating (°C) | -40 to 65 | -40 to 65 |
| Shock, Operating: 2 msec (Gs) | 225 | 225 |
| Shock, Nonoperating: 1 and 2 msec (Gs) | 800 | 800 |
| Acoustics | 2.2 | 2.2 |
| Idle (bels—sound power) | 2.3 | 2.3 |
| Quiet Seek (bels—sound power) | 2.5 | 2.5 |
| Performance Seek (bels—sound power) | 3.0 | 3.0 |
| Physical | 074/05 | 274/0.5 |
| Height (in/mm) | .374/9.5 | .374/9.5 |
| Width (in/mm) | 2.75/69.85 | 2.75/69.85 |
| Depth (in/mm) | 3.945/100.2 | 3.945/100.2 |
| Weight (lb/g) | .218/99 | .218/99 |

¹ Capacity calculated as 1 Gbyte = 10⁹ bytes

² Actual spin speed is 5400 RPM