Momentus 5400.3

2.5-inch storage for mainstream notebook PCs

The Freedom of Mobility and Enhanced Productivity with 5400-RPM Performance

160, 120, 100, 80, 60 and 40GB • 5400-RPM Performance • 2.5-Inch Notebook

Key Advantages

- Nearly 50 percent more performance than systems with 4200-RPM drives
- 4200-like battery consumption lets users work longer.
- Robust design and high shock tolerance enable mobility in rugged notebook operating environments.
- 350 Gs of operating shock and 900 Gs of nonoperating shock make the drive ideal for notebook PCs and industrial applications.

Best-Fit Applications

- Mainstream notebook PCs
- Tablet PCs
- External 2.5-inch drives
- MP3 players
- Printers and copiers

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Seagate Makes the Best Even Better With a 5-Year Warranty

Seagate® offers the industry's leading warranty to demonstrate our commitment to product reliability and our customers' success. Every Seagate internal hard drive for PCs, notebook computers and entry-level servers is covered under our unprecedented five-year warranty.

Seagate 5-Year Warranty

Momentus 5400.3 is the first Seagate product to utilize perpendicular recording technology. This innovative technology enables Seagate to deliver the industry's highest capacity of 160GB in a single, 2.5-inch disc drive without sacrificing best-in-class features.

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.

www.seagate.com
1-800-732-4283
(1-800-SEAGATE)

Specifications	160GB[1]	120GB[1]	100GB[1]	80GB[1]	60GB[1]	40GB[1]
Model Number	ST9160821A	ST9120822A	ST9100828A	ST980815A	ST960815A	ST940815A
Interface (Mbytes/sec)	Ultra ATA/100	Ultra ATA/100	Ultra ATA/100	Ultra ATA/100	Ultra ATA/100	Ultra ATA/100
Performance						
Transfer Rate						
Sustained Internal (Mbytes/sec)	44	44	44	44	44	44
Maximum External (Mbytes/sec)	100	100	100	100	100	100
Cache, Multisegmented (Mbytes)	8	8	8	8	8	8
Average Seek (msec)	12.5	12.5	12.5	12.5	12.5	12.5
Average Latency (msec)	5.6	5.6	5.6	5.6	5.6	5.6
Performance Level	5400	5400	5400	5400	5400	5400
Configuration/Organization						
Discs/Heads	2/4	2/3	2/3	1/2	1/2	1/1
Bytes per Sector	512	512	512	512	512	512
Logical CHS	92,049/16/63	92,049/16/63	92,049/16/63	92,049/16/63	92,049/16/63	92,049/16/63
Recording Method	Perpendicular	Perpendicular	Perpendicular	Perpendicular	Perpendicular	Perpendicular
Reliability/Data integrity						
Head-Rest Method	QuietStep™ Ramp Load	QuietStep Ramp Load	QuietStep Ramp Load	QuietStep Ramp Load	QuietStep Ramp Load	QuietStep Ramp Load
Load/Unload Cycles	>600,000	>600,000	>600,000	>600,000	>600,000	>600,000
Nonrecoverable Read Errors per Bits Read	1 per 10^{14} bits read	1 per 10^{14} bits read	1 per 10^{14} bits read	1 per 10^{14} bits read	1 per 10^{14} bits read	1 per 10^{14} bits read
Power Management						
Startup Current 5v (amps max)	1.0	1.0	1.0	1.0	1.0	1.0
Power Mgmt (watts)						
Seek	2.0	2.0	2.0	2.0	2.0	2.0
Read/Write	2.0/1.8	2.0/1.8	2.0/1.8	2.0/1.8	2.0/1.8	2.0/1.8
Idle/Standby	0.8/0.2	0.8/0.2	0.8/0.2	0.8/0.2	0.8/0.2	0.8/0.2
Environmental						
Temperature, Operating (°C)	0 to 60	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	−40 to 70
Shock, Operating: 2 msec (Gs)	350	350	350	350	350	350
Shock, Nonoperating: 1 msec (Gs)	900	900	900	900	900	900
Acoustics (bels—sound power)						
Idle	2.3	2.3	2.3	2.3	2.3	2.3
Performance Seek	2.9	2.9	2.9	2.9	2.9	2.9
Physical						
Height (in/mm)	.374/9.5	.374/9.5	.374/9.5	.374/9.5	.374/9.5	.374/9.5
Width (in/mm)	2.75/69.85	2.75/69.85	2.75/69.85	2.75/69.85	2.75/69.85	2.75/69.85
Depth (in/mm)	3.945/100.2	3.945/100.2	3.945/100.2	3.945/100.2	3.945/100.2	3.945/100.2
Weight (lb/g)	.22/102	.22/102	.22/102	.22/98	.22/98	.22/98

[1] One gigabyte, or GB, equals one billion bytes when referring to hard drive capacity.