Momentus 5400.4

Durable mobility—anywhere, anytime

120, 160, 200, 250 GB • 5400-RPM Performance • 2.5-Inch Laptop

Key Advantages

- Industry's most reliable hard drive with proven second-generation Seagate® perpendicular magnetic recording technology
- SATA 3Gb/s interface with Native Command Queuing, the fastest interface option available today, to enhance system performance levels
- Sustained data rate: 806 Mb/s
- Power:
  - Seek: 2.0 watts
  - Read: 2.0 watts
  - Write: 1.6 watts
- 8-MB cache
- 56 percent areal density increase from previous product generation
- Robust design and high shock tolerance enable mobility in rugged operating environments.
- 325 Gs of operating shock tolerance and 900 Gs of nonoperating shock tolerance make the drive ideal for laptop PCs and industrial applications.

Best-Fit Applications

- Mainstream laptops
- Workstations
- Gaming systems
- Small form factor PCs
- External boxes
- Non-mission-critical blade servers

Momentus 5400.4

Durable mobility—anywhere, anytime

Seagate

Seagate Global Customer Support

- Get presales and technical support at support.seagate.com.
- Visit our knowledge base for answers to common support questions.
- Find documentation for current and legacy drives.
- Utilize our online troubleshooting and diagnostic tools.
- Download DiscWizard™ to help migrate data from an older drive.
- Seagate also offers multi-lingual phone, email and chat support.
- Seagate Design Service Centers (DSC) help companies transform innovative ideas into viable products.

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

Specifications	250 GB[1]	200 GB[1]	160 GB[1]	120 GB[1]
Model Number	ST9250827AS	ST9200827AS	ST9160827AS	ST9120817AS
Interface	SATA 3Gb/s NCQ SATA 1.5Gb/s NCQ	SATA 3Gb/s NCQ SATA 1.5Gb/s NCQ	SATA 3Gb/s NCQ SATA 1.5Gb/s NCQ	SATA 3Gb/s NCQ SATA 1.5Gb/s NCQ
Performance				
Transfer Rate (MB/s)				
Sustained Internal	58	58	58	58
Maximum External	300	300	300	300
Cache, Multisegmented (MB)	8	8	8	8
Average Seek (ms)	<12	<12	<12	<12
Average Latency (ms)	5.6	5.6	5.6	5.6
Spindle Speed (RPM)	5400	5400	5400	5400
Configuration/Organization				
Disks/Heads	2/4	2/4	2/3	1/2
Bytes per Sector	512	512	512	512
Logical CHS	16,383/16/63	16,383/16/63	16,383/16/63	16,383/16/63
Recording Method	Perpendicular	Perpendicular	Perpendicular	Perpendicular
Reliability/Data Integrity				
Head-Rest Method	QuietStep™ Ramp Load	QuietStep Ramp Load	QuietStep Ramp Load	QuietStep Ramp Load
Load/Unload Cycles	>600,000	>600,000	>600,000	>600,000
Nonrecoverable Read Errors per Bits Read	1 per 10E14	1 per 10E14	1 per 10E14	1 per 10E14
Power Management				
Startup Current 5V (amps max)	1.0	1.0	1.0	1.0
Power Management (W)				
Seek Avg	2.0	2.0	2.0	2.0
Read/Write Avg	2.0/1.6	2.0/1.6	2.0/1.6	2.0/1.6
Idle/Standby Avg	0.6/0.2	0.6/0.2	0.6/0.2	0.6/0.2
Environmental				
Temperature (°C)				
Operating	0 to 60	0 to 60	0 to 60	0 to 60
Nonoperating	−40 to 70	−40 to 70	−40 to 70	−40 to 70
Shock (Gs)				
Operating: 2 ms	325	325	325	325
Nonoperating: 1 ms	900	900	900	900
Acoustics (bels—sound power)				
Idle	2.4	2.4	2.4	2.4
Performance Seek	2.6	2.6	2.6	2.6
Physical				
Height (in/mm)	0.374/9.5	0.374/9.5	0.374/9.5	0.374/9.5
Width (in/mm)	2.75/69.85	2.75/69.85	2.75/69.85	2.75/69.85
Depth (in/mm)	3.957/100.5	3.957/100.5	3.957/100.5	3.957/100.5
Weight (lb/g)	0.225/102	0.225/102	0.225/102	0.225/102

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