

Data Sheet

# Momentum 5400 FDE.2

Data-at-rest security drive for laptop PCs

**160, 120 and 80 GB • 5400-RPM Performance •  
2.5-Inch Laptop**

### Key Advantages

- Securely and quickly repurpose or retire used drives.
- Hardware-based AES full disk encryption is built in.
- Seamless encryption ensures no noticeable performance penalty.
- Access management software enables simple integration.

### Best-Fit Applications

- Laptop/notebook PCs
- External 2.5-inch drive enclosures
- Small form factor PCs/servers
- Non-mission-critical blade servers



# Momentum 5400 FDE.2

Data-at-rest security drive for laptop PCs



The Seagate® Momentum® 5400 FDE.2 drive is the world's first notebook hard drive designed to protect confidential information stored on lost or stolen laptop PCs. The drive utilizes DriveTrust™ technology to secure data where it lives—on the hard drive—providing a robust platform for developing and deploying stronger security solutions.

## DriveTrust security exploits the drive's closed environment

- Transparent AES hardware-based encryption
- Pre-boot authentication required
- On-the-fly drive erasure for fast and thorough erasing
- Hashed passwords maintained on the drive
- Emergency password recovery file kept on a separate device
- Authentication management tool allows user control.

## Seagate Makes the Best Even Better

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, laptop computers and entry-level servers is covered by a 5-year limited warranty.

[www.seagate.com](http://www.seagate.com)  
**1-800-SEAGATE**  
**(1-800-732-4283)**

Specifications	160GB <sup>1</sup>	120GB <sup>1</sup>	80GB <sup>1</sup>
Model Number	ST9160824AS	ST9120827AS	ST980816AS
Interface Options	SATA 1.5Gb/s	SATA 1.5Gb/s	SATA 1.5Gb/s
<b>Performance</b>			
Transfer Rate			
Sustained Internal (MB/s)	44	44	44
Maximum External (MB/s)	150	150	150
Cache, Multisegmented (MB)	8	8	8
Average Seek (msec)	12.5	12.5	12.5
Average Latency (msec)	5.6	5.6	5.6
Performance Level	5400	5400	5400
<b>Configuration/Organization</b>			
Disks/Heads	2/4	2/3	1/2
Bytes per Sector	512	512	512
Logical CHS	92,049/16/63	92,049/16/63	92,049/16/63
Recording Method	Perpendicular	Perpendicular	Perpendicular
<b>Reliability/Data Integrity</b>			
Head-Rest Method	QuietStep™ Ramp Load	QuietStep Ramp Load	QuietStep Ramp Load
Load/Unload Cycles	>600,000	>600,000	>600,000
Nonrecoverable Read Errors per Bits Read	1 per 10 <sup>14</sup>	1 per 10 <sup>14</sup>	1 per 10 <sup>14</sup>
<b>Power Management</b>			
Startup Current 5v (amps max)	1.0	1.0	1.0
Power Mgmt (W)			
Seek	2.0	2.0	2.0
Read/Write	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
<b>Environmental</b>			
Temperature (°C)			
Operating	0 to 60	0 to 60	0 to 60
Nonoperating	-40 to 70	-40 to 70	-40 to 70
Shock			
Operating: 2 msec (Gs)	350	350	350
Nonoperating: 1 msec (Gs)	900	900	900
Acoustics (bels—sound power)			
Idle	2.3	2.3	2.3
Performance Seek	2.9	2.9	2.9
<b>Physical</b>			
Height (mm)	.374/9.5	.374/9.5	.374/9.5
Width (mm)	2.75/69.85	2.75/69.85	2.75/69.85
Depth (mm)	3.945/100.2	3.945/100.2	3.945/100.2
Weight (gm)	.22/102	.22/102	.22/98

<sup>1</sup>One gigabyte, or GB, equals one billion bytes when referring to hard drive capacity.

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