


Momentum 7200.1

2.5-inch storage for workstation-class notebook PCs



The Freedom of
Mobility and
Enhanced Productivity
with 7200-RPM
Performance

60, 80 and 100 Gbytes • 7200-RPM Performance • 2.5-Inch Notebook

Key Advantages

- Highest available notebook performance increases productivity while on the road.
- Low power consumption maximizes battery life and lets users work longer.
- Robust design and high shock tolerance enable mobility in rugged notebook operating environments.
- 900 Gs of nonoperating shock makes the drive ideal for notebook PCs and industrial applications.
- Serial ATA interface option offers blazing fast 1.5 Gbit/sec interface speed combined with NCQ for high performance.

Best-Fit Applications

- Workstation-class notebook PCs
- Small form factor PCs
- Non-mission critical blade servers





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2.5-inch storage for mainstream notebook PCs

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.



Native Serial ATA Interface With Native Command Queuing (NCQ)

- Blazing fast 1.5Gb/s interface speed combined with NCQ for high performance
- NCQ streamlines data delivery and gathering by resorting and queuing commands.
- Great fit for high performance/RAID-configured notebooks, non-mission critical blade servers and small form factor PCs

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	100 GB ¹	80 GB ¹	60 GB ¹
Model Number	ST910021A ST910021AS	ST980825A ST980825AS	ST96023A ST96023AS
Interface (Mbytes/sec)	Ultra ATA/100 SATA/150 NCQ	Ultra ATA/100 SATA/150 NCQ	Ultra ATA/100 SATA/150 NCQ
Performance			
Transfer Rate			
Sustained Internal (Mbytes/sec)	45.8	45.8	45.8
Maximum External (Mbytes/sec)	100/150	100/150	100/150
Cache, Multisegmented (Mbytes)	8	8	8
Average Seek (msec)	10.5	10.5	10.5
Average Latency (msec)	4.2	4.2	4.2
Performance Level	7200	7200	7200
Configuration/Organization			
Discs/Heads	2/4	2/3	2/3
Bytes per Sector	512	512	512
Logical CHS	16,383/16/63	16,383/16/63	16,383/16/63
Recording Method	RLL 0, 11	RLL 0, 11	RLL 0, 11
Reliability/Data integrity			
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 ¹⁴ bits read	1 per 10 ¹⁴ bits read	1 per 10 ¹⁴ bits read
Power Management			
Startup Current 5v (amps max)			
PATA	1.1	1.1	1.1
SATA	1.28	1.28	1.28
Power Mgmt (watts)			
Seek			
PATA	2.6	2.6	2.6
SATA	2.6	2.6	2.6
Read/Write			
PATA	2.2/2.2	2.2/2.2	2.2/2.2
SATA	2.4/2.4	2.4/2.4	2.4/2.4
Idle/Standby			
PATA	1.3/.26	1.3/.26	1.3/.26
SATA	.95/.28	.95/.28	.95/.28
Environmental			
Temperature, Operating (°C)	5 to 55	5 to 55	5 to 55
Temperature, Nonoperating (°C)	-40 to 70	-40 to 70	-40 to 70
Shock, Operating: 2 msec (Gs)	250	250	250
Shock, Nonoperating: 1 msec (Gs)	900	900	900
Acoustics (bels—sound power)			
Idle	2.5	2.5	2.5
Performance Seek	2.9	2.9	2.9
Physical			
Height (in/mm)	.374/9.5	.374/9.5	.374/9.5
Width (in/mm)	2.75/69.85	2.75/69.85	2.75/69.85
Depth (in/mm)			
PATA	3.945/100.2	3.945/100.2	3.945/100.2
SATA	3.957/100.5	3.957/100.5	3.957/100.5
Weight (lb/g)	.254/115	.254/115	.254/115

¹ Capacity calculated as 1 Gbyte = 10⁹ bytes

www.seagate.com
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