

The world's best-selling hard drive with double the capacity



U SERIES

BEST COMBINATION OF PERFORMANCE, ACOUSTICS AND RELIABILITY

BEST-FIT
APPLICATIONS

ENTRY-LEVEL AND HIGH-VOLUME PCs

PERSONAL VIDEO RECORDERS (PVRs)

GAME CONSOLES

LASER PRINTERS AND COPIERS



- Best-in-class combination of ruggedness, performance and quiet operation with up to 80-Gbyte capacity
- Time-to-ready in 6.5 seconds—35 percent faster than previous generations
- Standard 2-Mbyte cache buffer and increased internal data transfer for ultimate performance
- 3D Defense System™ provides comprehensive protection against data loss.

UP TO 80 GBYTES • 5,400 RPM • ULTRA ATA/100

THE HIGHEST-VALUE SOLUTION FOR PC AND CONSUMER ELECTRONICS APPLICATIONS

U SERIES

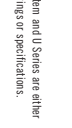
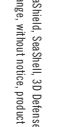
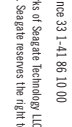
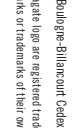
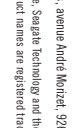
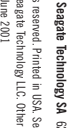
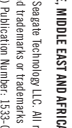
Seagate's 3D Defense System™ — No One Does More to Protect Your Drives

- **Drive Defense**
SeasShield™ packaging protects drive against 1,000 Gs of nonoperating shock
- **Soft SeasShield®** protects board against accidental handling damage and displays installation instructions.
- **G-Force Protection** provides electromechanical enhancements that protect the drive from operating and nonoperating shock.
- **Data Defense**
ECC (error-correction code) performs on-the-fly hardware correction for excellent performance.
- **Safe Spinning** ensures the drive will return to the same sector after a power outage.
- **CBDS** (continuous background defect scanning) proactively identifies and eliminates defects.
- **Diagnostic Defense**
Seafonts 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.
- **Enhanced Drive Self-Test (NDST)** reduces diagnostic time.

U SERIES FAMILY		80 GB ¹	60 GB ¹	40 GB ¹	30 GB ¹	20 GB ¹	KEY ADVANTAGES
Model Number	ST380020A	ST360020A	ST340810A	ST330510A	ST320410A		Resets value point for high-capacity desktop drives
Interface/External Transfer Rate (Mbytes/sec)	Ultra ATA/100	Ultra ATA/100	Ultra ATA/100	Ultra ATA/100	Ultra ATA/100		
PERFORMANCE							
Maximum Internal Transfer Rate (Mbytes/sec)	54.5	54.5	54.5	54.5	54.5		NEW! Increased internal data-transfer rate and 2-Mbyte cache deliver great performance for most office and personal productivity applications.
Average Sustained Transfer Rate (Mbytes/sec)	>14.5	>14.5	>14.5	>14.5	>14.5		
Multisegmented Cache (Mbytes)	2	2	2	2	2		
Average Seek (msec)	8.9	8.9	8.9	8.9	8.9		
Average Latency (msec)	5.55	5.55	5.55	5.55	5.55		6.5 second time-to-ready — 35 percent faster spinup time
Spindle Speed (RPM)	5,400	5,400	5,400	5,400	5,400		
CONFIGURATION/ORGANIZATION							
Discs/Heads	2/4	2/3	1/2	1/2	1/1		
Logical CHS	16,383/16/63	16,383/16/63	16,383/16/63	16,383/16/63	16,383/16/63		
Recording Method	GPRML (96/102)	GPRML (96/102)	GPRML (96/102)	GPRML (96/102)	GPRML (96/102)		
RELIABILITY/DATA INTEGRITY							
Contact Start-Stops	50,000	50,000	50,000	50,000	50,000		Soft SeasShield protects against inadvertent handling damage and electrostatic discharge, also includes installation instructions.
3D Defense System	Yes	Yes	Yes	Yes	Yes		
SeasShield and S.M.A.R.T.	Yes	Yes	Yes	Yes	Yes		
Nonrecoverable Read Errors per Bits Read	1 per 10 ¹³	1 per 10 ¹³	1 per 10 ¹³	1 per 10 ¹³	1 per 10 ¹³		
POWER MANAGEMENT							
+12 VDC ± 10% (amps max)	2.5	2.5	2.5	2.5	2.5		Low power requirement is ideal for fanless systems.
+5 VDC ± 5% (amps max)	8	8	8	8	8		
Power Management Seek (watts typ)	7.5	7.5	7.5	7.5	7.5		
Read/Write (watts typ)	7.5	7.5	7.5	7.5	7.5		
Idle/Standby (watts typ)	5.0/1.2	5.0/1.2	5.0/1.2	5.0/1.2	5.0/1.2		
ENVIRONMENTAL							
Temperature: Operating/Nonoperating (°C)	0 to 60/-40 to 70	0 to 60/-40 to 70	0 to 60/-40 to 70	0 to 60/-40 to 70	0 to 60/-40 to 70		G-Force Protection delivers the industry's best protection against nonoperating shock.
Shock, Operating: 2 msec (Gs)	63	63	63	63	63		
Shock, Nonoperating: 1 and 2 msec (Gs)	350	350	350	350	350		
Acoustics							Whisper-quiet operation is ideal for acoustically-sensitive applications.
Idle (beats—sound power)	3.0	3.0	2.9	2.9	2.9		
Quiet Seek (beats—sound power)	3.2	3.2	3.1	3.1	3.1		
Performance Seek (beats—sound power)	3.5	3.5	3.4	3.4	3.4		
PHYSICAL							
Height (in/mm)	1/26.1	1/26.1	1/26.1	1/26.1	1/26.1		
Width (in/mm)	4/101.85	4/101.85	4/101.85	4/101.85	4/101.85		
Depth (in/mm)	5.75/147.0	5.75/147.0	5.75/147.0	5.75/147.0	5.75/147.0		
Weight (lb/g)	1.5/680	1.5/680	1.5/680	1.5/680	1.5/680		

¹ Formatted capacity in Gbytes, 512 bytes/sector. Capacity calculated as 1 Gbyte = 10⁹ bytes. Limited warranty 3 years.

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



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