

The toughest and quietest
desktop drive in the world



BARRACUDA ATA IV

BEST COMBINATION OF PERFORMANCE, ACOUSTICS AND RELIABILITY

BEST-FIT
APPLICATIONS

HIGH-PERFORMANCE PCS

PC GAMING SYSTEMS

ENTRY-LEVEL ATA SERVERS,
INCLUDING RAID

COST-EFFECTIVE NETWORK
ATTACHED STORAGE



- Ultra-fast desktop performance with up to 80-Gbyte capacity
- New rugged design for increased reliability
- The industry's most proven FDB motor
- Inaudible acoustics with SBT ("sound barrier technology")
- 3D Defense System™ provides comprehensive protection against data loss

UP TO 80 GBYTES • 7,200 RPM • ULTRA ATA/100

HIGH-SPEED, HIGH-CAPACITY DRIVES FOR PCs AND ENTRY SERVERS



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

Drive Defense

- SeaShell™ packaging protects drive against 1,000 Gs of nonoperating shock.
- Soft SeaShield® 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 Sparing 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

- SeaTools 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.

World-Class Technical Support

- Certified, experienced support staff
- Rated "Above Average to Excellent" by 95 percent of our customers
- Toll-free support with the industry's shortest queues
- Individually archived case histories for quick reference
- Web-based Q&A forum and autoreply e-mail

BARRACUDA ATA IV	80 GB ¹	60 GB ¹	40 GB ¹	20 GB ¹	KEY ADVANTAGES
Model Number	ST380021A	ST360021A	ST340016A	ST320011A	The best choice for high-speed, high-capacity desktop storage.
Interface/External Transfer Rate (Mbytes/sec)	Ultra ATA/100	Ultra ATA/100	Ultra ATA/100	Ultra ATA/100	
PERFORMANCE					
Maximum Internal Transfer Rate (Mbits/sec)	555	555	555	555	Fast internal data rate and 7,200 RPM speed deliver superb performance under Windows 2000 operating systems.
Maximum External Transfer Rate (Mbits/sec)	100	100	100	100	
Sustained Transfer Rate (Mbytes/sec)	24 to 41	24 to 41	24 to 41	24 to 41	
Multisegmented Cache (Mbytes)	2	2	2	2	
Average Seek (msec)	9.5	9.5	8.9	8.9	
Average Latency (msec)	4.16	4.16	4.16	4.16	
Spindle Speed (RPM)	7,200	7,200	7,200	7,200	
CONFIGURATION/ORGANIZATION					
Discs/Heads	2/4	2/3	1/2	1/1	
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	EPRML (16/17)	EPRML (16/17)	EPRML (16/17)	EPRML (16/17)	
RELIABILITY/DATA INTEGRITY					
Contact Start-Stops	50,000	50,000	50,000	50,000	Hard SeaShield protects against inadvertent handling damage and electrostatic discharge. Also includes installation instructions.
3D Defense System	Yes	Yes	Yes	Yes	
SeaShield and S.M.A.R.T.	Yes	Yes	Yes	Yes	
Nonrecoverable Read Errors per Bits Read	1 per 10 ¹⁴	1 per 10 ¹⁴	1 per 10 ¹⁴	1 per 10 ¹⁴	
Limited Warranty (years)	1	1	1	1	
POWER MANAGEMENT					
+12 VDC ± 10% (amps max)	2.8	2.8	2.8	2.8	
+5 VDC ± 5% (amps max)	1.2	1.2	1.2	1.2	
Power Management (watts typ) Seek	13	13	13	13	
Read/Write (watts typ)	12.5	12.5	12.5	12.5	
Idle/Standby (watts typ)	8/1.1	8/1.1	8/1.1	8/1.1	
ENVIRONMENTAL					
Temperature: Operating (°C)	0 to 60	0 to 60	0 to 60	0 to 60	G-Force Protection delivers the industry's best protection against nonoperating shock
Nonrecoverable read error per bits read (°C)	-40 to 70	-40 to 70	-40 to 70	-40 to 70	
Shock, Operating: 2 msec (Gs)	63	63	63	63	
Shock, Nonoperating: 2 msec (Gs)	350	350	350	350	
Acoustics					
Idle (bels—sound power)	2.5	2.5	<2.5	<2.5	Inaudible acoustics ideal for work environments and home operation
Quiet Seek (bels—sound power)	2.8	2.8	2.5	2.5	
Performance Seek (bels—sound power)	3.3	3.3	3.0	3.0	
PHYSICAL					
Height (in/mm)	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	
Depth (in/mm)	5.75/146.56	5.75/146.56	5.75/146.56	5.75/146.56	
Weight (lb/g)	1.2/544	1.2/544	1.2/544	1.2/544	

All capacity with FDB motors

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



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