

BARRACUDA ATA II

FORMATTED CAPACITIES OF 10.2 TO 30.6 GBYTES

ULTRA ATA/66



7,200 RPM

High-capacity desktop disc drives ideally suited for performance PCs, gaming PCs and ATA RAID Subsystems

- Ultra ATA/66
- 300 Gs nonoperating shock for outstanding reliability
- 7,200 RPM and 8.2-msec average seek time
- Ships with Seagate's exclusive 3D Defense System™
- Quiet desktop operation



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3.5 INCH DISC DRIVE	Barracuda® ATA II	Barracuda ATA II	Barracuda ATA II	Barracuda ATA II
	ST310210A	ST315320A	ST320420A	ST330630A
CAPACITY AND INTERFACE				
Formatted Gbytes (512 bytes/sector)	10.2	15.3	20.4	30.6
Interface	Ultra ATA/66	Ultra ATA/66	Ultra ATA/66	Ultra ATA/66
PERFORMANCE				
Maximum Internal Transfer Rate (Mbits/sec)	364	364	364	364
Maximum External Transfer Rate (Mbytes/sec)	66.6	66.6	66.6	66.6
Average Sustained Transfer Rate (Mbytes/sec)	>30	>30	>30	>30
Multisegmented Cache	2 Mbytes	2 Mbytes	2 Mbytes	2 Mbytes
Average Seek (msec)	8.2	8.2	8.2	8.2
Average Latency (msec)	4.2	4.2	4.2	4.2
Spindle Speed (RPM)	7,200	7,200	7,200	7,200
CONFIGURATION/ORGANIZATION				
Discs/Heads	1/2	2/3	2/4	3/6
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 (PRML)	EPRL (16/17)	EPRL (16/17)	EPRL (16/17)	EPRL (16/17)
RELIABILITY/DATA INTEGRITY				
Contact Start-Stops (40°C)	50,000	50,000	50,000	50,000
3D Defense System	Yes	Yes	Yes	Yes
S.M.A.R.T. Capable	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)	3	3	3	3
POWER REQUIREMENTS				
+12 VDC ± 10% (amps max)	2.0	2.0	2.0	2.4
+5 VDC ± 5% (amps max)	0.6	0.6	0.6	0.6
Power Management (watts) Seek	11.6	11.6	11.6	12.5
Read/Write	8.5	8.5	8.5	9.7
Idle	7.0	7.0	7.0	8.0
Standby	1.5	1.5	1.5	1.5
ENVIRONMENTAL				
Operating Temperature (°C)	0 to 55	5 to 55	5 to 55	5 to 55
Nonoperating Temperature (°C)	-40 to 65	-40 to 65	-40 to 65	-40 to 65
Operating Shock @ 2 msec (Gs)	63	63	63	63
Nonoperating Shock @ 2 msec (Gs)	300	300	300	300
Acoustics, Idle (bels-sound power)	3.4	3.4	3.4	3.4
Performance Seek (bels-sound power)	3.9	3.9	3.9	3.9
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)	5.75/147.0	5.75/147.0	5.75/147.0	5.75/147.0
Weight (lb/g)	1.2/550	1.2/550	1.2/550	1.2/550

Capacity calculated as 1 Gbyte = 10⁹ bytes



CORPORATE HEADQUARTERS Seagate Technology, LLC, 920 Disc Drive, Scotts Valley, California, 95066, United States 831-438-6550
ASIA/PACIFIC Seagate Technology International Ltd, 151 Lorong Chuan, New Tech Park #06-01, Singapore 556741, 65-488-7200
EUROPE, MIDDLE EAST AND AFRICA Seagate Technology SA 62 bis, avenue André Morizet, 92643 Boulogne-Billancourt Cedex, France 33 1-41 86 10 00

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