

BARRACUDA ATA III

FORMATTED CAPACITIES OF 10 TO 40 GBYTES

ULTRA ATA/100



7,200 RPM

High-capacity desktop disc drives ideally suited to handle today's most exciting applications

- Ultra ATA/100
- 350 Gs nonoperating shock for outstanding reliability
- 7,200 RPM and 8.9-msec average seek time
- Ships with Seagate's exclusive 3D Defense System™
- Quiet desktop operation with sound barrier technology



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3.5 INCH DISC DRIVE	Barracuda® ATA III	Barracuda ATA III	Barracuda ATA III	Barracuda ATA III
	ST310215A	ST320414A	ST330620A	ST340824A
CAPACITY AND INTERFACE				
Formatted Gbytes (512 bytes/sector)	10	20	30	40
Interface	Ultra ATA/100	Ultra ATA/100	Ultra ATA/100	Ultra ATA/100
PERFORMANCE				
Maximum Internal Transfer Rate (Mbits/sec)	500	500	500	500
Maximum External Transfer Rate (Mbytes/sec)	100	100	100	100
Average Sustained Transfer Rate (Mbytes/sec)	>30	>30	>30	>30
Multisegmented Cache (Mbytes)	2	2	2	2
Average Seek (msec)	8.9	8.9	8.9	8.9
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	1/1	1/2	2/3	2/4
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)	EPRML (16/17)	EPRML (16/17)	EPRML (16/17)	EPRML (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)	2.4	2.4	2.4	2.4
+5 VDC ± 5% (amps max)	0.7	0.7	0.7	0.7
Power Management (watts) Seek	10.5	10.5	10.5	10.5
Read/Write	8.2	8.2	8.2	8.2
Idle	8.0	8.0	8.0	8.0
Standby	0.7	0.7	0.7	0.7
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)	350	350	350	350
Acoustics* Idle (bels-sound power)	3.0	3.0	3.0	3.0
Quiet Seek (bels-sound power)	3.2	3.2	3.2	3.2
Performance Seek (bels-sound power)	3.4	3.4	3.4	3.4
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)	1.2/544	1.2/544	1.2/544	1.2/544

Capacity calculated as 1 Gbyte = 10⁹ bytes
 *With FDB motor option

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