

BARRACUDA ATA

FORMATTED CAPACITIES OF 6.8 TO 28 GBYTES

ULTRA ATA/66



7,200 RPM

HIGHEST-CAPACITY DESKTOP DISC DRIVES IDEALLY SUITED TO HANDLE TODAY'S MOST EXCITING APPLICATIONS

- > ULTRA ATA/66
- > 300 GS NONOPERATING SHOCK FOR OUTSTANDING RELIABILITY
- > 7,200 RPM AND 7.6 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	Barracuda ATA	Barracuda ATA	Barracuda ATA	Barracuda ATA
	ST36810A	ST310220A	ST313620A	ST320430A	ST328040A
CAPACITY AND INTERFACE					
Formatted Gbytes (512 bytes/sector)	6.8	10.2	13.6	20.4	28.0
Interface	Ultra ATA/66	Ultra ATA/66	Ultra ATA/66	Ultra ATA/66	Ultra ATA/66
PERFORMANCE					
Maximum Internal Transfer Rate (Mbits/sec)	323	323	323	323	323
Maximum External Transfer Rate (Mbytes/sec)	66.6	66.6	66.6	66.6	66.6
Average Sustained Transfer Rate (Mbytes/sec)	>15	>15	>15	>15	>15
Multisegmented Cache (Kbytes)	512	512	512	512	512
Average Seek, Read (msec)	7.6	7.6	7.6	7.6	8.0
Average Latency (msec)	4.16	4.16	4.16	4.16	4.16
Spindle Speed (RPM)	7,200	7,200	7,200	7,200	7,200
CONFIGURATION/ORGANIZATION					
Discs/Heads	1/2	2/3	2/4	3/6	4/8
Bytes per Sector	512	512	512	512	512
Logical CHS	14,123/15/63	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)	EPRML (16/17)
RELIABILITY/DATA INTEGRITY					
Contact Start-Stops (40°C)	50,000	50,000	50,000	50,000	50,000
SeaShield System	Yes	Yes	Yes	Yes	Yes
S.M.A.R.T. Capable	Yes	Yes	Yes	Yes	Yes
Nonrecoverable Read Errors per Bits Read	10 per 10 ¹⁴	10 per 10 ¹⁴	10 per 10 ¹⁴	10 per 10 ¹⁴	10 per 10 ¹⁴
Service Life/Limited Warranty (years)	5/3	5/3	5/3	5/3	5/3
POWER REQUIREMENTS					
+12 VDC ± 10% (amps max)	2.4	2.4	2.4	2.4	2.4
+5 VDC ± 5% (amps max)	0.7	0.7	0.7	0.7	0.7
Power Management (watts) Seek	11.9	11.9	11.9	11.9	11.9
Read/Write	7.5	7.5	7.5	7.5	7.5
Idle	6.8	6.8	6.8	6.8	6.8
Standby	1.2	1.2	1.2	1.2	1.2
ENVIRONMENTAL					
Operating Temperature (°C)	0 to 55	5 to 55	5 to 55	5 to 55	5 to 55
Nonoperating Temperature (°C)	-40 to 70	-40 to 70	-40 to 70	-40 to 70	-40 to 70
Operating Shock @ 2 msec (Gs)	63	63	63	63	63
Nonoperating Shock @ 2 msec (Gs)	300	300	300	300	300
Acoustics, Idle (Bels-sound power)	3.5	3.5	3.5	3.5	3.5
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)	1.2/550	1.2/550	1.2/550	1.2/550	1.2/550

Capacity calculated as 1 Gbyte = 10⁹ bytes

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SeaShield®



MULTIMEDIA READY