U SERIES 5 FAMILY

FORMATTED CAPACITIES OF 10 TO 40 GBYTES

ULTRA ATA/100

5,400 RPM

Entry-level disc drives delivering superior data protection, robustness and value

- Best-in-class combination of ruggedness, perfomance and quiet operation

- 3D Defense System™ provides comprehensive protection against data loss.

- Soft SeaShield® drive cover and SeaShell® packaging protect against ESD and handling damage.

- Ultra ATA/100

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3.5 INCH DISC DRIVE	U Series 5™ ST310211A	U Series 5 ST315311A	U Series 5 ST320413A	U Series 5 ST330621A	U Series 5 ST340823A
CAPACITY AND INTERFACE					
Formatted Gbytes (512 bytes/sector)	10	15	20	30	40
Interface	Ultra ATA/100	Ultra ATA/100	Ultra ATA/100	Ultra ATA/100	Ultra ATA/100
PERFORMANCE					
Maximum Internal Transfer Rate (Mbits/sec)	376	376	376	376	376
Maximum External Transfer Rate (Mbytes/sec)	100	100	100	100	100
Average Sustained Transfer Rate (Mbytes/sec)	>14.5	>14.5	>14.5	>14.5	>14.5
Multisegmented Cache	512 Kbytes	512 Kbytes	512 Kbytes	512 Kbytes	512 Kbytes
Average Seek (msec)	8.9	8.9	8.9	8.9	8.9
Average Latency (msec)	5.6	5.6	5.6	5.6	5.6
Spindle Speed (RPM)	5,400	5,400	5,400	5,400	5,400
CONFIGURATION/ORGANIZATION					
Discs/Heads	1/1	1/2	1/2	2/3	2/4
Bytes per Sector	512	512	512	512	512
Logical CHS	16,383/16/63	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
3D Defense System	Yes	Yes	Yes	Yes	Yes
S.M.A.R.T. Capable	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}
Limited Warranty (years)	3	3	3	3	3
POWER REQUIREMENTS					
+12 VDC ± 10% (amps max)	1.4	1.4	1.4	1.4	1.4
+5 VDC ± 5% (amps max)	0.9	0.9	0.9	0.9	0.9
Power Management (watts) Seek	9.6	9.6	9.6	9.6	9.6
Read/Write	7.1	7.1	7.1	7.1	7.1
Idle	4.8	4.8	4.8	4.8	4.8
Standby	1.4	1.4	1.4	1.4	1.4
ENVIRONMENTAL					
Operating Temperature (°C)	0 to 60	0 to 60	0 to 60	0 to 60	0 to 60
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)	350	350	350	350	350
Acoustics, Idle (bels–sound power)	2.9	2.9	2.9	3.0	3.0
Quiet Seek (bels–sound power)	3.1	3.1	3.1	3.2	3.2
Performance Seek (bels–sound power)	3.5	3.5	3.5	3.6	3.6
PHYSICAL					
Height (in/mm)	1/26.1	1/26.1	1/26.1	1/26.1	1/26.1
Width (in/mm)	4/102.0	4/102.0	4/102.0	4/102.0	4/102.0
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)	1.2/544	1.2/544	1.2/544	1.2/544	1.2/544

Capacity calculated as 1 Gbyte = 10^9 bytes

3D DEFENSE SYSTEM   Designed for Microsoft® Windows® 95   Designed for Microsoft® Windows NT® Windows® 98   Designed for Microsoft® Windows® 2000 Professional   SeaShield®   DiscWizard   energy ALLY   ULTRA ATA   S·M·A·R·T SYSTEM COMPLIANT

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