



U SERIES 5 FAMILY

FORMATTED CAPACITIES OF 10 TO 40 GBYTES



ULTRA ATA



5,400 RPM

ENTRY-LEVEL DISC DRIVES DELIVERING SUPERIOR DATA PROTECTION, ROBUSTNESS AND VALUE

- > BEST-IN-CLASS COMBINATION OF RUGGEDNESS, PERFORMANCE, QUIET OPERATION
- > 3D DEFENSE SYSTEM PROVIDES COMPREHENSIVE PROTECTION AGAINST DATA LOSS
- > SOFT SEASHIELD®, SEASHELL® PACKAGING PROTECTS AGAINST ESD, HANDLING DAMAGE

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3.5 INCH DISC DRIVE	U Series 5 Family	U Series 5 Family	U Series 5 Family	U Series 5 Family	U Series 5 Family
	ST310211A	ST315311A	ST320413A	ST330621A	ST340823A
CAPACITY AND INTERFACE					
Formatted Gbytes	10	15	20	30	40
Interface	Ultra ATA	Ultra ATA	Ultra ATA	Ultra ATA	Ultra ATA
PERFORMANCE					
Maximum Internal Transfer Rate (Mbits/sec)	330	330	330	330	330
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 (Mbytes)	1	1	1	1	1
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	EPRML (16/17)	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	50,000
SeaShield	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)	1.0	1.0	1.0	1.0	1.0
+5 VDC ± 5% (amps max)	0.5	0.5	0.5	0.5	0.5
Power Management (watts) Seek	7.0	7.0	7.0	7.0	7.0
Read/Write	6.5	6.5	6.5	6.5	6.5
Idle	3.5	3.5	3.5	3.5	3.5
Standby	1.5	1.5	1.5	1.5	1.5
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)	3.3	3.3	3.3	3.4	3.4
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 = 10⁹ bytes



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