

Barracuda® 5400.1

An entry-level solution with features you would expect from a more expensive drive



Enables Higher
Margins and
Greater Flexibility
for Customers

40 Gbytes • 5,400 RPM Performance Level • Ultra ATA/100

Key Advantages

- Has built-in features designed to enable greater margins on high-value, entry-level systems
- 25-percent thinner to improve system airflow—ideal for fanless systems while remaining compatible with industry standard mounting brackets
- Low power requirements to enable the use of smaller, less expensive power supplies
- 33-percent lighter mass to reduce shipping-related costs
- Features Seagate® SoftSonic™ motor for whisper-quiet operation

Best-Fit Applications

- Entry-Level PCs
- Office Computers
- External Storage
- Printers and Copiers
- Consumer Electronics





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The Seagate 3D Defense System™ — No One Does More to Protect Your Drives

DRIVE DEFENSE

- SeaShell™ packaging protects drive against 1,000 Gs of nonoperating shock.
- Enhanced G-Force Protection with ShockPoints protects the drive from nonoperating shock and prevents damage to the motor, heads, head-arm, clamp and discs during shipping, handling and daily operation.

DATA DEFENSE

- ECC (error-correction code) performs on-the-fly hardware correction for excellent performance.
- Safe Sparring ensures the drive will return to the same sector after a power outage.
- CBDS (continuous background defect scanning) proactively identifies and eliminates defects.

DIAGNOSTIC DEFENSE

- SeaTools Suite diagnostic software is designed to reduce drive returns, decrease drive repair costs and protect data.
- Web-based tools enable users to identify and solve common system-related issues.
- Enhanced S.M.A.R.T. (Self-Monitoring, Analysis and Reporting Technology) predicts and prevents problems transparently before they affect the end user.
- Enhanced Drive Self-Test (NDST) reduces diagnostic time.

World-Class Technical Support

- Certified, experienced support staff
- Rated “Above Average to Excellent” by 95 percent of our customers
- Support lines with the shortest wait times in the industry
- Individually archived case histories for quick reference
- Web-based Q&A forum and autoreply e-mail
- Seagate Design Service Centers (DSC) help companies transform innovative ideas into viable products.

www.seagate.com

1-800-732-4283 (1-800-SEAGATE)

Specifications

40GB¹

Model Number	ST340015A
Interface	Ultra ATA/100
Performance	
Transfer Rate	
Maximum Internal (Mbits/sec)	445
Maximum External (Mbytes/sec)	100
Cache, Multisegmented (Mbytes)	2
Average Seek (msec)	12.5
Average Latency (msec)	5.55
Performance Level	5,400
Configuration/Organization	
Discs/Heads	1/1
Bytes per Sector	512
Logical CHS	16,383/16/63
Recording Method	GPRML (96/102)
Reliability/Data integrity	
Contact Start-Stops	50,000
3D Defense System	Yes
Nonrecoverable Read Errors per Bits Read	1 per 10 ¹⁴
Power Management	
+12 VDC ±10% (amps max)	2.0
+5 VDC ±5% (amps max)	1.2
Power Management ² (watts) Seek	6.0
Read/Write	6.4
Idle/Standby	4.5/1.9
Sleep	.9
Environmental	
Temperature, Operating (°C)	0 to 60
Temperature, Nonoperating (°C)	-40 to 70
Shock, Operating: 2 msec (Gs)	63
Shock, Nonoperating: 2 msec (Gs)	350
Acoustics	
Idle (bels—sound power)	2.6
Seek (bels—sound power)	2.7
Physical	
Height (in/mm)	.79/19.99
Width (in/mm)	4.02/102
Depth (in/mm)	5.78/146.9
Weight (lb/g)	1.0/454

1. Capacity calculated as 1 Gbyte = 10⁹ bytes

2. Tested under ambient temperature and nominal voltages

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