

The best of Seagate packed into an entry-level enterprise drive



BARRACUDA 36ES2

VALUE, RUGGEDNESS AND LOW ACOUSTICS

BEST-FIT
APPLICATIONS

ENTRY-LEVEL
WORKSTATIONS

ENTRY-LEVEL SERVERS

ENTRY-LEVEL RAID

LEGACY SYSTEMS



- Best technology packed into an entry-level enterprise drive
- Eighth-generation Barracuda® provides design maturity and reliability
- The toughest, most rugged SCSI drive
- Exceptionally quiet acoustics at 2.0 bels
- Ultra160 SCSI interface for new applications
- S.E. Ultra SCSI (8 bit) interface for legacy applications

18.4 AND 36.9 GBYTES • 7,200 RPM • ULTRA160 SCSI AND ULTRA SCSI

VALUE, RUGGEDNESS AND LOW ACOUSTICS FOR ENTRY-LEVEL WORKSTATIONS AND SERVERS



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

Drive Defense

- G-Force protection reduces susceptibility to shock.
- SeaShell™ packaging reduces handling damage tenfold and returns by 70 percent.
- SeaShield® protects board against accidental handling damage.

Data Defense

- The Seagate Advanced Multidrive System™ (SAMS) reduces effects of rotational vibration generated by drives operating simultaneously.
- Temperature Sensor warns the host if heat exceeds configured limits.

Diagnostic Defense

- SeaTools software utility determines a drive's health and efficiency.
- Web-Based Tools help to solve common nondisc-related problems.

World-Class Technical Support

- Certified, experienced support staff
- Rated "Above Average to Excellent" by 95 percent of our customers
- Toll-free support with the industry's shortest queues
- Individually archived case histories for quick reference
- Web-based Q&A forum and autoreply e-mail

www.seagate.com ■ 1-800-732-4283; 1-800-SEAGATE

BARRACUDA 36ES2	36.9 GB	18.4 GB	KEY ADVANTAGES
Model Number	ST336918N ST336938LW	ST318418N ST318438LW	36.9-Gbyte and 18.4-G byte capacities designed for market sweet spots
INTERFACE			
Interface/External Transfer Rate (Mbytes/sec)	Ultra SCSI 20	Ultra SCSI 20	Ultra SCSI (8 bit) 20-Mbytes
Interface/External Transfer Rate (Mbytes/sec)	Ultra SCSI 160	Ultra SCSI 160	Compatible with Ultra2 and all other 160-Mbyte SCSI implementations
PERFORMANCE			
Spindle Speed (RPM)	7,200	7,200	Entry-level SCSI providing the right balance between cost and performance. Designed with the Seagate Advanced Multidrive System™ (SAMS) a set of designs that reduces the effects of rotational vibration generated from multiple drives operating simultaneously in a cabinet, keeping performance on track while competitor drive performance suffers
Latency, average (msec)	4.17	4.17	
Seek Time			
Average read/write (msec)	8.5/9.25	6.9/7.5	
Track-to-Track read/write (msec)	0.6/1.0	0.6/1.0	
Transfer Rate			
Internal (Mbits/sec)	298 to 500	434 to 500	Entry-level SCSI incorporates 2-Mbyte cache for extra performance
Internal Formatted (Mbytes/sec)	24.8 to 41.4	36.8 to 41.4	
Cache, Multisegmented (Mbytes)	2	2	
CONFIGURATION/ORGANIZATION			
Discs/Heads	1/2	1/2	Most advanced technology on the market. Industry leading components create high Areal Density, and high reliability
Sectors per drive, 512 bytes/sector	72,176,566	38,914,049	
Cylinders	56332	26435	
Recording Method PRML	EPRML	EPRML	
RELIABILITY/DATA INTEGRITY			
Error Rate			3D Defense System: No one does more to protect your drive 3D Data Defense: ECC, Safe Sparing, Continuous Background Defect Scanning 3D Diagnostics: Enhanced S.M.A.R.T. preempts errors. Web-based tools and Seatools diagnostic software helps customers identify problem sources
Recoverable, per bits read	10 per 10 ¹²	10 per 10 ¹²	
Nonrecoverable, per sectors read	1 per 10 ¹⁵	1 per 10 ¹⁵	
Seek Errors, per seek	10 per 10 ⁷	10 per 10 ⁷	
ENVIRONMENTAL			
Acoustics, Idle (bels)	2.0	2.0	Lowest acoustics ever offered on a SCSI drive!
Temperature: Operating/Nonoperating (°C)	5-55/-40 to 70	5-55/-40 to 70	Temperature Sensor warns host when the temperature exceeds limits
Shock: Operating/Nonoperating 2 msec (Gs)	63/350	63/350	The highest shock rating for any SCSI drive!
Vibration: Operating/Nonoperating 22-350 Hz (Gs)	0.5/5.0	0.5/5.0	G-Force Protection increases drive ruggedness and reliability
POWER REQUIREMENTS			
+12/+5 VDC ± 5% (amps)	0.36/0.76	0.36/0.76	Experience with the seventh-generation Seagate Barracuda family of products ensures low power requirements.
Power, Idle: SCSI (watts)	8.1	8.1	
PHYSICAL			
Height (in/mm)	1.0/25.4	1.0/25.4	
Width (in/mm)	4.0/101.6	4.0/101.6	
Depth (in/mm)	5.77/146.6	5.77/146.6	
Weight (lb/kg)	1.2/0.55	1.2/0.55	



CORPORATE HEADQUARTERS Seagate Technology LLC, 920 Disc Drive, Scotts Valley, California, 95066, United States 831-438-6550
 ASIAPACIFIC Seagate Technology International Ltd. 151 Lorong Chuan, New Tech Park #06-01, Singapore 556741, 65-488-7200
 EUROPE, MIDDLE EAST AND AFRICA Seagate Technology SA 62 bis, avenue André Morizet, 92643 Boulogne-Billancourt Cedex, France 33 1-41 86 10 00

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