

## Data Sheet

# DB35.3 Series™

Quiet, reliable hard drives tuned for digital entertainment with the industry's broadest range of capacity choices

## 80 GB to 750 GB\* • PATA\* and SATA

### Key Advantages

- Capacities of 80, 160, 250, 320, 400, 500 and 750 GB provide space options from entry level to the power system, enabling users to save entire seasons of television programming.
- Up to 750 hours of standard TV capacity, up to 150 hours of high-definition capacity\*\*
- DynaPlay™ technology delivers the storage industry's most comprehensive set of features for the demanding DVR environment, including video streaming performance, power optimisation and content security.
- Seagate® SoftSonic™ motor technology and optimised seek profiles deliver years of quiet, worry-free operation.
- Available Seagate Secure™ technology improves content security as part of a system digital rights management strategy.
- Seagate Design Service Centres improve product performance and reliability, while increasing your time to market, by solving CE design issues quickly and efficiently.

### Best-Fit Applications

- DVRs
- Home media servers
- Multimedia HDD recorders



\* Compatible with UDMA-2, -3 and -4

\*\* Standard TV capacity assumption: MPEG-2 at 2.22 Mb/s; high-definition capacity assumption: MPEG-4 at 12.0 Mb/s



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Specifications	750 GB <sup>1</sup>	500 GB <sup>1</sup>	400 GB <sup>1</sup>	320 GB <sup>1</sup>	250 GB <sup>1</sup>	160 GB <sup>1</sup>	80 GB <sup>1</sup>
Model Number	ST3750640SCE ST3750840SCE ST3750840ACE	ST3500830SCE ST3500830ACE	ST3400820SCE ST3400820ACE	ST3320820SCE ST3320820ACE	ST3250820SCE ST3250820ACE	ST3160215SCE ST3160215ACE	ST380215SCE ST380215ACE
Interface Options	SATA 3Gb/s Ultra ATA 100	SATA 3Gb/s Ultra ATA 100	SATA 3Gb/s Ultra ATA 100	SATA 3Gb/s Ultra ATA 100	SATA 3Gb/s Ultra ATA 100	SATA 3Gb/s Ultra ATA 100	SATA 3Gb/s Ultra ATA 100
<b>Performance</b>							
Cache, Multi-segmented (MB)	16, 8	8	8	8	8	2	2
SATA Data Transfer Modes Supported (Gb/s)	3.0/1.5	3.0/1.5	3.0/1.5	3.0/1.5	3.0/1.5	3.0/1.5	3.0/1.5
Simultaneous SDTV Streams Supported (Assumes 256K host buffer per stream)	10	10	10	10	10	10	10
Simultaneous HDTV Streams Supported (Assumes 2MB host buffer per stream)	10	10	10	10	10	10	10
Power-On to Ready (typical, sec)	16	16	16	16	16	16	16
Standby to Ready (typical, sec)	16	16	16	16	16	16	16
Transfer Rate Maximum External, PATA (MB/s) Maximum External, SATA (MB/s)	100 300	100 300	100 300	100 300	100 300	100 300	100 300
<b>Voltage</b>	5V ± 5%, 12V ± 10%						
<b>Environmental</b>							
Ambient Temperature (°C) Operating Non-operating	0 to 60 -40 to 70	0 to 60 -40 to 70	0 to 60 -40 to 70	0 to 60 -40 to 70	0 to 60 -40 to 70	0 to 60 -40 to 70	0 to 60 -40 to 70
Temperature Gradient, Operating/Non-operating (°C per hour max)	20/30	20/30	20/30	20/30	20/30	20/30	20/30
Relative Humidity, Operating/Non-operating (non-condensing, %)	5 to 90/5 to 95	5 to 90/5 to 95	5 to 90/5 to 95	5 to 90/5 to 95	5 to 90/5 to 95	5 to 90/5 to 95	5 to 90/5 to 95
Wet Bulb Temperature, Operating/Non-operating (°C max)	37.7	37.7	37.7	37.7	37.7	37.7	37.7
Shock Operating: 2 msec (max, Gs) Non-operating: 1 msec (max, Gs)	63 300	63 300	63 300	63 300	63 300	63 350	63 350
Vibration, operating 5-22 Hz (limited displacement) (Gs) 22-350 Hz (Gs) 350-500 Hz (Gs)	0.25 0.50 0.25	0.25 0.50 0.25	0.25 0.50 0.25	0.25 0.50 0.25	0.25 0.50 0.25	0.50 0.50 —	0.50 0.50 —
Vibration, Non-operating: 5-22 Hz (limited displacement) (Gs) 22-350 Hz (Gs) 350-500 Hz (Gs)	0.25 5.00 1.00	0.25 5.00 1.00	0.25 5.00 1.00	0.25 5.00 1.00	0.25 5.00 1.00		
<b>Power Management</b>							
Startup Current (12 V typical, amps)	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Consumer Storage Profile PATA (watts) SATA (watts)	8.20 9.4	8.20 9.4	8.20 9.4	8.20 9.4	8.20 9.4	5.0 5.8	5.0 5.8
Idle Average (watts)	9.3	9.3	9.3	9.3	9.3	4.8	4.8
Standby/Sleep Mode (typical, watts)	0.8	0.8	0.8	0.8	0.8	0.8	0.8
<b>Acoustics</b>							
PVR Profile PATA (typical/max, bels) SATA (typical/max, bels)	2.9/3.0 3.0/3.1	2.9/3.0 3.0/3.1	2.8/2.9 2.9/3.0	2.8/2.9 2.9/3.0	2.7/2.8 2.8/2.9	2.2/2.3 2.2/2.3	2.2/2.3 2.2/2.3
<b>Reliability</b>							
Non-recoverable Read Errors per Bits Read	1 sector per 10 <sup>14</sup>	1 sector per 10 <sup>14</sup>	1 sector per 10 <sup>14</sup>	1 sector per 10 <sup>14</sup>	1 sector per 10 <sup>14</sup>	1 sector per 10 <sup>14</sup>	1 sector per 10 <sup>14</sup>
Annualised Failure Rate (AFR):	0.68%	0.68%	0.68%	0.68%	0.68%	0.68%	0.68%
Contact Start-Stop Cycles (25°C, 50% relative humidity)	50,000	50,000	50,000	50,000	50,000	50,000	50,000
<b>Dimensions</b>							
Height (mm/in, max)	26.1/1.028	26.1/1.028	26.1/1.028	26.1/1.028	26.1/1.028	19.99/0.787	19.99/0.787
Width (mm/in, max)	101.6/4.00	101.6/4.00	101.6/4.00	101.6/4.00	101.6/4.00	101.6/4.010	101.6/4.010
Depth (mm/in, max)	146.99/5.787	146.99/5.787	146.99/5.787	146.99/5.787	146.99/5.787	146.6/5.787	146.6/5.787
Weight (g/lb, max)	720/1.59	720/1.59	635/1.40	580/1.28	580/1.28	380/0.838	380/0.838

<sup>1</sup> One gigabyte, or GB, equals one billion bytes when referring to hard drive capacity.

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