

V3200 - Samsung Hard Disk Drive

SV0322A / SV0644A

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Drive Architecture

Formatted Capacities	
Gigabytes per Drive	3.2/6.4
Physical Organization	
Disks	1/2
Heads	2/4

Functional Specifications

Actuator Type	Rotary Voice Coil
Interface	Ultra ATA/E-IDE
Servo	Embedded Sector Servo
Recording Method	16/17 EPR4
S.M.A.R.T.-2 Support	

Performance Specifications

Read Seek Time (typical)	
Track to Track	2 ms
Average	10 ms
Full Stroke	20 ms
Average Latency	5.6 ms
Spindle Speed	5,400 rpm
Data Transfer Rate	
Buffer to Media(max.)	173 Mbits/s
Buffer to Host(max.)	33.3 Mbytes/s
Buffer Size	512 Kbytes

Reliability Specifications

Recoverable Read Error	1 in 10 ¹⁰ bits
Non-recoverable Read Error	1 in 10 ¹⁴ bits
MTBF (POH)	500,000 hours
MTTR (Typical)	5 min
Start/Stop Cycles	50,000
Component Design Life	5 years

Environmental Specifications

Temperature	
Operating	5 ~ 55°C
Non-operating	-40 ~ 70°C
Thermal Gradient (max.)	20°C/15%/hr
Humidity (non-condensing)	
Operating	8 ~ 80 %
Non-operating	8 ~ 95 %
Maximum Wet Bulb (OP/NOP)	29°C/40°C
Altitude (relative to sea level)	
Operating	-200 to 10,000 feet
Non-operating	-1,000 to 40,000 feet

Shock and Vibration

Shock (1/2 sine pulse, 2 ms duration)	
Operating	63 G
Non-operating	140 G
Shock (1/2 sine pulse, 11 ms duration)	
Operating	10 G
Non-operating	75 G
Vibration (swept sine, 1 octave per minute)	
Operating	
5 ~ 21 Hz	0.034" (double amplitude)
22 ~ 400 Hz	1.5 Gp-p
Non-operating	
5 ~ 21 Hz	0.195" (double amplitude)
22 ~ 500 Hz	8 Gp-p

Power Consumption (Typical)

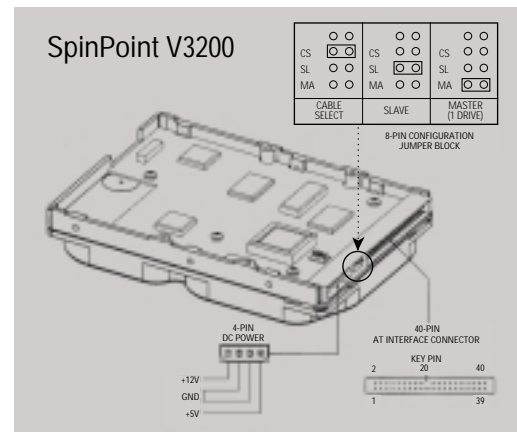
Voltage	5V±5%	12V±10%
Read/Write		5.4 W
Seek (1/3Seek, 33% Duty)		6.8 W
Idle		5.4 W
Standby		1.4 W
Sleep		1.4 W

Acoustic Noise

Sound pressure at 1 meter (typical)	
Idle	32 dBA
Random Read/Write	36 dBA
Sound power (typical)	
Idle	4.0 bels
Random Read/Write	4.5 bels

Physical Dimension

Height	1 inch
Width	4 inches
Depth	5.75 inches
Weight	1.2 pounds



Distributed by: _____

SpinPoint™
V3200

3.2/6.4GB

V series



SAMSUNG HARD DISK DRIVE

- 5400 RPM Spindle Speed
- 10 ms Average Seek
- 33.3 MB/sec Ultra DMA
- 512KB Cache Buffer
- Rugged, 63G Operating Shock Resistance
- S.M.A.R.T. -2 Support



SAMSUNG

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