

V6800 Series - Samsung Hard Disk Drive

Model	SV0682D	SV1023D	SV1364D	SV1705D	SV2046D
Capacity	6.8GB	10.2GB	13.6GB	17.0GB	20.4GB
Heads	2	3	4	5	6
Disks	1	2	2	3	3

Contact

Corporate HQ
Tel. 82-2-751-6886
Fax. 82-2-751-6939
Website: samsungelectronics.com

US/Canada
Tel. 1-408-544-5538
Fax. 1-408-544-5652
Website: www.sosimple.com

UK(Europe)
Tel. 44-181-391-0168
Fax. 44-181-974-2800

Germany
Tel. 49-180-5121213
Fax. 49-180-5121214
Singapore(Southeast)
Tel. 65-568-7592
Fax. 65-569-5900

Australia
Tel. 612-9763-9700
Fax. 612-9764-6440

HongKong
Tel. 852-2862-6365
Fax. 852-2866-1316

India
Tel. 91-11-631-0564
Fax. 91-11-693-2607

Japan
Tel. 81-3-5641-9890
Fax. 81-3-5641-9861



Spinpoint is a trademark of Samsung Electronics Co., Ltd. All brand and product names are trademarks of registered trademarks of their respective companies design and specifications are subject to change without notice.
©1999 Samsung Electronics Co., Ltd.
All right reserved.
Rev.6 6/23/1999

Features

- 5,400 rpm Spindle Speed
- 9.5 ms Average seek Time
- Fast ATA-4/EIDE Interface
- Ultra DMA 33/66 Data Transfer Rate
- Error Correction on the Fly (Multi-Burst)
- 512 KB Segmented Read/Write Cache Buffer
- S.M.A.R.T compliant

Performance Specifications

Read Seek Time (typical)	
Track to Track	1.2 ms
Average	9.5 ms
Full Stroke	18 ms
Average Latency	5.56 ms
Spindle Speed	5,400±0.1% rpm
Data Transfer Rate	
Media to/from Buffer(max.)	247 Mbits/s
Buffer to/from Host (max.)	66.6 Mbytes/s
Buffer Size	512 Kbytes

Reliability Specifications

Non-recoverable Read Error	1 in 10 ¹⁴ bits
MTBF (POH)	500,000 hours
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 ~ 90 %
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

Linear Shock (1/2 sine pulse, 11 ms duration)	
Operating	10 G
Non-operating	75 G
Vibration (swept sine)	
Operating (1/2 octave per minute)	
5 ~ 21 Hz	0.034" (double amplitude)
22 ~ 300 Hz	1.5 Gp-p
300 ~ 500 Hz	0.5 Gp-p
Non-operating(1 octave per minute)	
5 ~ 21 Hz	0.195" (double amplitude)
22 ~ 500 Hz	8 Gp-p

Power Consumption (typical)

Voltage	5V ± 5% / 12V ± 10%
Power Up Current(max.)	600 / 1550mA
Read/Write	4.5W
Seek (Random Seek, 30% Duty)	6.0 W
Idle	4.3 W
Standby	1.3 W
Sleep	1.3 W

Acoustic Noise

Sound Power (average)	
Idle	3.4 bels
Random Read/Write	3.6 bels

Physical Dimension

Height	1 inch
Width	4 inches
Depth	5.75 inches
Weight	1.3 pounds

Distributed by:

SpinPoint™

V6800

V series

6.8/10.2/13.6/17.0/20.4GB

SAMSUNG HARD DISK DRIVE

- 5400 rpm Spindle Speed
- 9.5 ms Average Seek Time
- Fast ATA-4/EIDE Interface
- 66.6 MB/sec Ultra DMA
- Error Correction on the Fly
- 512KB Cache Buffer
- S.M.A.R.T. Compliant

SAMSUNG

S
A
M
S
U
N
G
H
A
R
D
D
I
S
K
D
R
I
V
E