

SpinPoint™

V9100

4.3/8.4/13.6/18.2GB

V series



SAMSUNG HARD DISK DRIVE

- High Speed Digital Signal Processor(DSP) Based Architecture
- Fast ATA-4/Enhanced-IDE Interface
- Ultra DMA 66 Support
- 5,400rpm Spindle Speed
- 8.5ms Average Seek Time
- 7 way interleave OTF Error Correction
- S.M.A.R.T Compliant

SAMSUNG

V9100 Series - Samsung Hard Disk Drive

Model	SV0431D	SV0842D	SV1363D	SV1824D
Capacity	4.3GB	8.4GB	13.6GB	18.2GB
Heads	1	2	3	4
Disks	1	1	2	2

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Features

- 3.5-inch High Performance Hard Drives
- 9.1GB Capacity per Disk
- High Speed Digital Signal Processor(DSP) Based Architecture
- Fast ATA-4/Enhanced-IDE Interface
- Ultra DMA 66 Support
- 5,400rpm Spindle Speed
- 8.5ms Average Seek Time
- 7 way interleave OTF Error Correction
- S.M.A.R.T Compliant

Performance Specifications

Read Seek Time (typical, read)	
Track to Track	0.8 ms
Average	8.5 ms
Full Stroke	16.5 ms
Average Latency	5.56 ms
Spindle Speed	5,400 rpm
Data Transfer Rate	
Media to/from Buffer(max.)	284 Mbits/s
Buffer to/from Host (max.)	66 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	5 ~ 85 %
Non-operating	5 ~ 95 %
Maximum Wet Bulb (OP/NOP)	30°C/40°C
Altitude (relative to sea level)	

Operating	-650 to 10,000 feet
Non-operating	-1,000 to 40,000 feet

Shock and Vibration

Linear Shock (1/2 sine pulse, 2 ms duration)	
Operating	63 G
Non-operating	250 G
Vibration (swept sine)	
Operating (1/2 octave per minute)	
5 ~ 21 Hz	0.034" (double amplitude)
22 ~ 400 Hz	1.5 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.)	390 / 2000mA
Read/Write	3.5W
Seek (Random Seek, 33% Duty)	4.3 W
Idle	3.3 W
Standby	1.0 W
Sleep	0.9 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	1.1 pounds

Distributed by: _____