

V20400 Series - Samsung Hard Disk Drive

Model	SV1021D	SV2042D	SV3063D	SV4084D
Capacity	10.2GB	20.4GB	30.6GB	40.8GB
Heads	1	2	3	4
Disks	1	1	2	2

Contact

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www.samsunghdd.co.kr



Features

- 3.5-inch High Performance Hard Drives
- 20.4GB Capacity per Disk
- Acoustic Noise Suppression Technology
- High Speed Digital Signal Processor(DSP) Based Architecture
- Ultra DMA 66 Support
- 5,400rpm Spindle Speed
- 9.0ms Average Seek Time
- 7 way interleave OTF Error Correction
- S.M.A.R.T Compliant
- SSB™
- ImpacGuard™
- NoiseGuard™

Performance Specifications

Read Seek Time (typical, read)	
Track to Track	0.8 ms
Average	9.0 ms
Full Stroke	17 ms
Average Latency	5.56 ms
Spindle Speed	5,400 rpm
Data Transfer Rate	
Media to/from Buffer(max.)	343 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/hr

Humidity (non-condensing)

Operating	5 ~ 85 %
Non-operating	5 ~ 95 %
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	300 G
Vibration (swept sine)	
Operating (1 octave per minute)	
5 ~ 21 Hz	0.034" (double amplitude)
22 ~ 300 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.)	500 / 1850mA
Read/Write	4.3W
Seek	6.0 W
Idle	4.0 W
Standby	1.0 W
Sleep	1.0 W

Acoustic Noise

Sound Power (average)	
Idle	2.8 bels
Random Read/Write	3.0 bels

Physical Dimension

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

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V20400

10.2/20.4/30.6/40.8GB

V series



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