

V10200 Series - Samsung Hard Disk Drive

| Model | SV0511D | SV1022D | SV1533D | SV2044D |
|----------|---------|---------|---------|---------|
| Capacity | 5.1GB | 10.2GB | 15.3GB | 20.4GB |
| Heads | 1 | 2 | 3 | 4 |
| Disks | 1 | 1 | 2 | 2 |

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Features

- 3.5-inch High Performance Hard Drives
- 10.2GB Capacity per Disk
- 5,400rpm Spindle Speed
- 8.5ms Average Seek Time
- Ultra DMA 66/33 Support
- Acoustic Noise Suppression Technology
- High Speed Digital Signal Processor(DSP) Based Architecture
- 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 | 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.) | 291 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 | 250 G |

Vibration (swept sine)

| | |
|------------------------------------|-----------------------------|
| Operating (1/2 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.) | 620 / 2000mA |
| Read/Write | 4.3W |
| Seek | 4.9 W |
| Idle | 3.6 W |
| Standby | 1.1 W |
| Sleep | 1.1 W |

Acoustic Noise

| | |
|-----------------------|----------|
| Sound Power (average) | |
| Idle | 3.0 bels |
| Random Read/Write | 3.3 bels |

Physical Dimension

| | |
|--------|-------------|
| Height | 1 inch |
| Width | 4 inches |
| Depth | 5.75 inches |
| Weight | 1.1 pounds |

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V10200

5.1/10.2/15.3/20.4GB

V series



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