

# 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       |

## Contact

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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 <sup>14</sup> 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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Rev.C 4/2000

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V10200

5.1/10.2/15.3/20.4GB

**V** series



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