

Voyager 3A - Samsung Hard Disk Drive

VA34323A

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Drive Architecture

| | |
|-----------------------|-----|
| Formatted Capacities | |
| Gigabytes per Drive | 4-3 |
| Physical Organization | |
| Disks | 2 |
| Heads | 4 |

Functional Specifications

| | |
|------------------|-----------------------|
| Actuator Type | Rotary Voice Coil |
| Interface | Ultra ATA |
| Servo | Embedded Sector Servo |
| Recording Method | 16/17 EPR4 |

Performance Specifications

| | |
|---------------------|----------|
| Seek Time (typical) | |
| Track to Track | 2 ms |
| Average | 10 ms |
| Full Stroke | 20 ms |
| Average Latency | 5.6 ms |
| Spindle Speed | 5,400rpm |
| Data Transfer Rate | |

| | |
|-----------------|-------------------|
| Buffer to Media | up to 143 Mbits/s |
| Buffer to Host | 33.3 Mbytes/s |
| Buffer Size | 512 Kbytes |

Reliability Specifications

| | |
|----------------------------|----------------------------|
| Recoverable Read Error | 1 in 10 ¹⁰ bits |
| 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 ~ 65°C |
| Thermal Gradient (max.) | 20°C/hr |
| Humidity (non-condensing) | |
| Operating | 8 ~ 80 % |
| Non-operating | 8 ~ 95 % |
| 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

| | |
|---|-----------------------------|
| Shock (1/2 sine pulse, 11 ms duration) | |
| Operating | 10 G |
| Non-operating | 75 G |
| Vibration (swept sine, 1 octave per minute) | |
| Operating | |
| 5 ~ 21 Hz | 0.034" (double amplitude) |
| 22 ~ 400 Hz | 1.5 Gp-p |
| Non-operating | |
| 5 ~ 21 Hz | 0.195" (double amplitude) |
| 22 ~ 500 Hz | 8 Gp-p |

Power Consumption

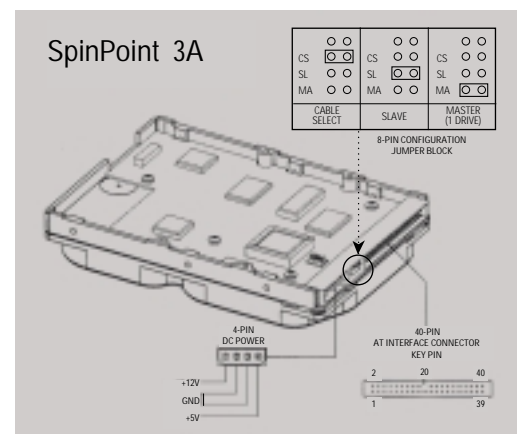
| | | |
|----------------------|-------|-----------|
| Voltage | 5V±5% | 12V±10% |
| Read/Write (typical) | | 6.0 watts |
| Seek (typical) | | 9.5 watts |
| Idle (typical) | | 6.2 watts |
| Standby (typical) | | 0.5 watts |
| Sleep (typical) | | 0.5 watts |

Acoustic Noise

| | |
|------|--------|
| Idle | 32 dBA |
|------|--------|

Physical Dimension

| | |
|--------|-------------|
| Height | 1 inch |
| Width | 4 inches |
| Depth | 5.75 inches |
| Weight | 1.2 pounds |



Distributed by: _____

4.3GB

V series



SAMSUNG HARD DISK DRIVE

- 5,400 RPM Spindle Speed
- <10 ms Average Seek
- 33.3 MB/sec Ultra DMA
- 512KB Cache Buffer
- S.M.A.R.T. Support

