

V80 Series



CAPACITY ^{†1}	20GB	40GB	60GB	80GB	120GB	160GB
MODEL	SV0211N	SV0401N	SV0612N	SV0802N	SV1203N	SV1604N

FEATURES

- 80GB Formatted Capacity Per Disk
- Ultra ATA-133 Compatible
- Fluid Dynamic Bearing Spindle Motor Technology
- High Speed Dual Digital Signal Processor (DSP) Based Architecture
- ATA S.M.A.R.T. Compliant
- ATA Security Mode Feature Set
- ATA Host Protected Area Feature Set
- ATA Automatic Acoustic Management Feature Set
- ATA 48-bit Address Feature Set
- ATA Streaming Feature Set
- ATA Device Configuration Overlay Feature Set
- Multi-Burst On-The-Fly Error Correction
- NoiseGuard™
- SilentSeek™

DRIVE CONFIGURATION

Interface	ATA-6
Buffer DRAM Size ^{†2}	2 MB
Bytes per Sector	512

PERFORMANCE SPECIFICATIONS

Read Seek Time (typ.)	
Track to Track	0.8 ms
Average	8.9 ms
Full Stroke	18 ms
Average Latency	5.56 ms
Rotational Speed	5,400 rpm
Maximum Data Transfer Rate	
Media to/from Buffer (typ.)	565 Mbits/sec
Buffer to/from Host	133 MB/sec
Drive Ready Time (typ.)	7 sec

RELIABILITY SPECIFICATIONS

Non-recoverable Read Error	1 sector in 10 ¹⁴ bits
MTBF	500,000 POH
Start/Stop Cycles (Ambient)	50,000
Component Design Life	5 years

ACOUSTICS (AVERAGE SOUND POWER)

Idle	2.6 Bel
Random Read/Write	2.7 Bel

ENVIRONMENTAL SPECIFICATIONS

Temperature	
Operating	5 ~ 55 °C
Non-operating	-40 ~ 70 °C
Thermal Gradient (max.)	20°C/hr
Humidity (non-condensing)	
Operating	5 ~ 90 %
Non-operating	5 ~ 95 %
Linear Shock (1/2 sine pulse)	
Operating, 2ms	63 G
Non-operating, 2ms	350 G
Vibration (swept sine, 1 octave per minute)	
Operating	
5 ~ 21 Hz	0.034" (double amplitude)
21 ~ 300 Hz	1.5 Gp-p
Non-operating	
5 ~ 21 Hz	0.195" (double amplitude)
21 ~ 500 Hz	8 Gp-p
Altitude (relative to sea level)	
Operating	-1,000 to 10,000 feet
Non-operating	-1,000 to 40,000 feet

POWER REQUIREMENTS

Voltage	+5V±5%, +12V±10%
Spin Up Current (max.)	670 / 2390 mA
Seek ^{†3} (typ.)	7.0 W
Read/Write On-Track (typ.)	6.4 W
Idle (typ.)	5.5 W
Standby (typ.)	0.4 W
Sleep (typ.)	0.4 W

PHYSICAL DIMENSION

Height	1 in
Width	4 in
Depth	5.75 in
Weight	1.45 lb

Specifications are subject to change without notice.

^{†1} 1MB=1,000,000 Bytes 1GB=1,000,000,000 Bytes

^{†2} 128 KB is used for firmware

^{†3} 30% duty cycle, random seek

^{†4} Unless otherwise specified, specifications are for both 1 and 2 disk configurations

