Seagate

We turn on ideas

ST1 Series

One-inch disc drives for mobile devices

Rugged, reliable one-inch disc drives designed for handheld consumer electronics devices

4 and 8 Gbytes • 3600-RPM Performance • CompactFlash, IDE Flex

Key Advantages

- High capacities allow for downloading larger libraries of high-fidelity music, video and digital photos to PDAs and entertainment devices.
- RunOn Technology solves the problem of inconsistent music playback while in a high-vibration environment, such as jogging.
- High robustness shields the drive against shock from mishandling and increases system durability.
- 2-Mbyte buffer equals desktop PC disc drive buffer, enhancing digital media streaming performance.

Best Fit Applications

- Pocket music players
- PDAs
- Digital still cameras
- Digital video cameras
- Portable multimedia players
- USB storage, Mobile phones

ST1 Series

One-inch disc drives for mobile devices

Rugged, reliable one-inch disc drives designed for handheld consumer electronics devices

- 3,600-RPM spindle speed and 2-Mbyte buffer combine for superior performance.
- Quiet operation with Fluid Dynamic Bearing (FDB) motor
- Giant magneto resistive (GMR) recording heads and EPRML technology, which provide the drives with increased aerial density
- State-of-the-art cache and on-the-fly error-correction algorithms
- 1500 Gs nonoperating shock and 200 Gs operating shock

Seagate Design Service Centers

- Technical consultation in helping handheld device developers and manufacturers expertly integrate and overcome technical issues
- Speeds your time-to-market performance by solving design and integration issues quickly and efficiently
- Improves your product's reliability and performance
- Provides field engineering and business support teams in person and worldwide
- Available advanced application design advice through our design centers in USA and Singapore

www.seagate.com
1-800-732-4283 (1-800-SEAGATE)

Specifications	8 GB[1]	4 GB[1]
Model Number	ST68022CF ST68022FX	ST64022CF ST64022FX
Interface/External Transfer Rate (Mbytes/sec)	CF+/33.3, IDE Flex/33.3	CF+/33.3, IDE Flex/33.3
Performance		
Spindle Speed (RPM)	3600	3600
Average Latency (msec)	8.3	8.3
Seek Time Average Read/Write (msec)	2.0/3.0	2.0/3.0
Transfer Rate Maximum Internal (Mbytes/sec)	130	130
Maximum Sustained (Mbytes/sec)	8.8	8.8
Cache, Multisegmented (Mbytes)	2	2
Configuration/Organization		
Bytes per Sector	1024	1024
Reliability/Data integrity		
Nonrecoverable Read Errors per Bits Read	1 sector per 10^{14}	1 sector per 10^{14}
Power Management		
Typical (mA)	330	330
Idle Average (mA)	200	200
Standby Average (mA)	90	90
Environmental		
Temperature, Operating (°C)	0 to 70	0 to 70
Temperature, Nonoperating (°C)	−40 to 70	−40 to 70
Shock, Operating: 2 msec (Gs)	175	175
Shock, Nonoperating: 1 msec (Gs)	1500	1500
Acoustics Idle (bels—sound power)	2.1/2.4	2.1/2.4
Rotational Vibration (Rad/sec)	1.0	1.0
Physical		
Height (mm)	5.0 +/−0.1	5.0 +/−0.1
Width (mm)	42.80 +/−0.101	42.80 +/−0.101
Depth (mm)	36.40 +/−0.15	36.40 +/−0.15
Weight (g)	18.0	18.0

[1] One gigabyte, or GB, equals one billion bytes when referring to hard drive capacity.