

# **ST1 Series**

One-inch disc drives for mobile 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 GB1                      | 4 GB <sup>1</sup>          |
|--|----------------------------|----------------------------|
| Model Number                                   | ST68022CF<br>ST68022FX     | ST64022CF<br>ST64022FX     |
| Interface/External Transfer Rate (Mbytes/sec)  | CF+/33.3,<br>IDE Flex/33.3 | CF+/33.3,<br>IDE Flex/33.3 |
| Performance                                    |                            |                            |
| Spindle Speed (RPM)                            | 3600                       | 3600                       |
| Average Latency (msec)                         | 8.3                        | 8.3                        |
| Seek Time<br>Average Read/Write (msec)         | 2.0/3.0                    | 2.0/3.0                    |
| Transfer Rate<br>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 1014          | 1 sector per 1014          |
| 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                       |

<sup>1</sup> One gigabyte, or GB, equals one billion bytes when referring to hard drive capacity.

AMERICAS Seagate Technology LLC 920 Disc Drive, Scotts Valley, California 95066, United States, 831-438-6550 ASIA/PACIFIC Seagate Technology International Ltd. 7000 Ang Mo Kio Avenue 5, Singapore 569877, 65-6485-3888 EUROPE, MIDDLE EAST AND AFRICA Seagate Technology SA 130-136, rue de Silly, 92773 Boulogne-Billancourt Cedex, France, 33 1-41 86 10 00

Copyright © 2005 Seagate Technology LLC. All rights reserved. Printed in USA. Seagate Technology and the Wave logo are registered trademarks of Seagate Technology LLC. STI Series is a trademark or registered trademark of Seagate Technology LLC. Other product names are trademarks or registered trademarks of their owners. One glaphyte, or Gbyte, equals one billion bytes when referring to hard rive capacity. Accessible capacity may vary depending on operating environment and formatting. Seagate reserves the right to change, without notice, product offerings or specifications. Publication Number: DS-1582-001, July 2005