

## PRODUCT OVERVIEW

# Momentum 5400 FDE

## Hardware-Based Full Disc Encryption (FDE)

Strong, transparent hardware-based data protection that prevents unauthorized access to data on lost or stolen laptops.



### KEY FEATURES AND BENEFITS

- Encrypts all data directly on the drive for worry-free protection
- No disc initialization, installation or configuration is required for the highest convenience and ease of use.
- Drives that are stolen, taken out of service, or re-purposed remain fully protected.
- Simple user and security ID keys make end of life and re-purposing instantaneous and secure.
- Supports and enhances Trusted Platform Modules (TPM)
- Encryption speed matches the throughput of the drive interface for faster performance

### KEY SPECIFICATIONS

- 40-, 60-, 80-, 100- and 120-Gbyte
- 5400-RPM performance
- 2.5-inch form factor
- Ultra ATA/100

“...The only effective means to protect unauthorized access to data is the use of encryption.”

– Richard Reese, CEO, Iron Mountain

# Momentum 5400 FDE

Hardware-Based Full Disc Encryption (FDE)

## PRODUCT DESCRIPTION

Momentum® 5400 FDE is a hardware-based full disc encryption product that offers state-of-the-art data protection to personal and corporate notebook users. Momentum 5400 FDE is easy to use and simply requires a user password for authentication to ensure that everything on the hard disc drive, not just selected files or partitions, is secured with strong encryption technology. Data is protected from unauthorized access, whether a disc drive or system is stolen, retired or sold into a secondary resale channel. And with Disc Erase, Momentum 5400 FDE also eliminates the need for corporate IT departments to spend additional money to clean and dispose of drives scheduled for retirement.

## THE SEAGATE ADVANTAGE

Full disc encryption from Seagate® can save companies millions of dollars in lost or stolen intellectual property. Momentum 5400 FDE is an easy value proposition for global computer manufacturers and system integrators to incorporate into higher value solutions for their customers. Investments that have been made in TPM platforms are now more valuable with full disc encryption from Seagate.

## SPECIFICATIONS

|                            |                      |
|----------------------------|----------------------|
| Encryption Strength        | TDEA 192 bit         |
| Capacities (Gbytes)        | 40, 60, 80, 100, 120 |
| Interface                  | Ultra ATA/100        |
| Transfer Rate (Mbytes/sec) | 57.6                 |
| Cache (Mbytes)             | 8                    |
| Average Seek (msec)        | 12.5                 |
| Spindle Speed (RPM)        | 5,400                |
| Discs/Heads                | 2/4 (120 Gbyte)      |
| Bytes per Sector           | 512                  |
| Shock, Nonoperating (Gs)   | 900                  |
| Acoustics, Idle (bels)     | 2.3 (single disc)    |

## APPLICATIONS

- Notebook Computers
- Tablet PCs
- External Storage

## ADDITIONAL FEATURES

- Independent of OS to avoid OS vulnerabilities and overhead
- Enterprise key management options provide extended and access-controlled drive interfaces for enterprise application support
- Extensibility enabled by trusted, access-controlled API, supporting vendor enhancements<sup>2</sup>
- Supports the following smart card standards for vendor application development:
  - GSC-IS v.2.1
  - ETSI TS 102.221
  - ETSI TS 102.222
  - ISO/IEC 7816-4:2003
  - ISO/IEC 7816-8:1999
  - ISO/IEC 7816-9:2000
  - ISO/IEC 7816-15:2002

## ENABLING NEW OPPORTUNITIES

Momentum 5400 FDE is a unique solution that addresses the needs of end users and corporate IT managers:

- Protects from unauthorized access, whether a disc drive or system is stolen, retired or sold into a secondary resale channel
- Corporate IT departments save time and money because integration is seamless and no additional capital expenses are required for end of life

<sup>2</sup> Trust extensions for storage and other peripheral devices are being developed in the TCG (Trusted Computing Group)

For more information, go to [www.seagate.com](http://www.seagate.com)

### Storage Segments

Network Storage

Server Storage

High-Density Storage

Nearline Storage

Low-Cost Server

PC Commercial

PC Consumer

Notebook

Automotive

DVR

Gaming/Audio/Other

Government

Handheld

