

Gain Complete Data Protection with SanDisk Self-Encrypting SSDs and Wave Systems



Built-in Security to Protect Sensitive Data—without Sacrificing Performance

SanDisk[®]
wave[®]



What is an SED?

A self-encrypting drive performs all the same functions as a standard drive, with one important advantage: it automatically encrypts the data at the hardware level, so enterprises don't need to add after-market encryption software.

SanDisk Collaboration with Wave Systems

As the workforce becomes more mobile, enterprise data is exposed to greater risks. With data breach regulations to comply with and the financial after-effects of a data breach hanging in the balance, businesses increasingly need comprehensive, cost-effective data protection solutions. SanDisk self-encrypting drives (SEDs) not only offer industry-standard encryption, they also have less impact on system performance than software encryption, and can be incorporated efficiently as part of a typical PC refresh cycle. Add Wave management, and the enterprise can be assured that data is protected to the best available standard.

How does it work?

SEDs, by their nature, offer a superior environment for encryption. With their own processor, dynamic memory and pre-boot environment, they are self-sufficient for encryption and isolated from the rest of the system, where viruses and malware can reside. That not only makes them resistant to software attacks, it also means they cost less and outperform conventional software encryption solutions. Encryption keys are stored in the SED controller and never sit in the system's memory, making them invisible to attackers. And since encryption is turned on during manufacturing, the drive encrypts anything written to it and decrypts anything read from it. By design, this bypasses the bulk encryption step required by software full disk encryption—eliminating hours of installation time.

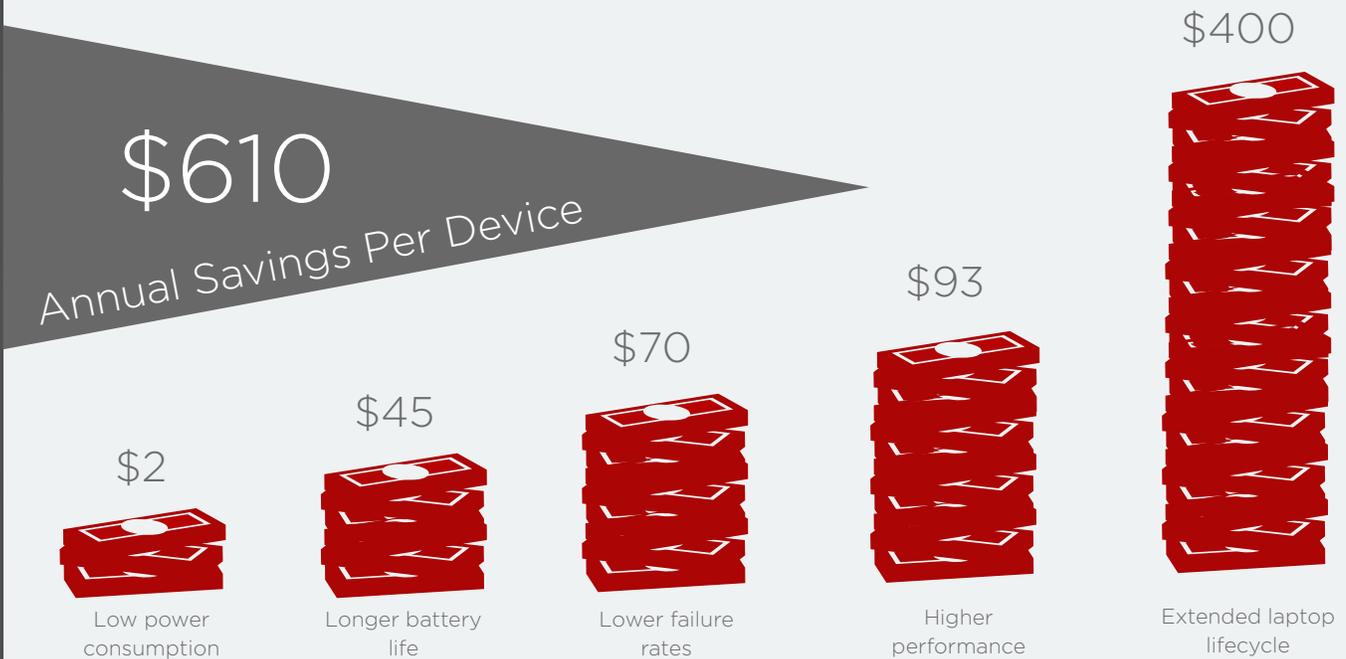
SanDisk SE-SSDs

Ideal for corporate PCs and notebooks, SanDisk SE-SSDs combine the power and energy efficiency of SSDs with the built-in security of self-encrypting drives (SEDs). They feature support for Wave and the TCG Opal 2.0 security standard, as well as a low-power Device Sleep (DEVSLP) mode that is compatible with Microsoft® InstantGo. Users will appreciate greater productivity with an increase in useable hours per battery charge¹ while businesses can rest easy knowing that their data is secure when their employees are on the go.

Delivering Peace of Mind to Your Business

Total Cost of Ownership

Solid state drives (SSDs) are more reliable than hard disk drives (HDDs), which can improve total cost of ownership by reducing downtime due to hard drive failures. They also offer lower latency and greater access speeds over traditional HDDs, so users can experience a noticeable improvement in responsiveness¹. IT departments can extend the useful life of their PC inventory by upgrading their HDDs to SanDisk SSDs, thus prolonging replacement cycles and maximizing asset value.



SanDisk SE-SSDs are demonstrably better at protecting data-at-rest than software encryption that is added after-market to a non-encrypting drive. However, a management tool is needed to enforce access control to the encrypted data, whether the drive user is a single individual, a small business, or a global enterprise. With Wave management deployed, the access to the encrypted data is secured and SEDs are enterprise-ready.

Wave local and enterprise management complements SanDisk SEDs by offering everything from basic user and password provisioning, to full enterprise management and compliance with security regulations. Whether managing 30 drives or 300,000, Wave software can scale to meet the needs of any organization.

Transparent Encryption with Straightforward Manageability

Wave local management is available through SanDisk's Dashboard application, which makes getting started easy and can be seamlessly upgraded to enterprise or cloud management.

Features of Wave SED management:

- Secure audit logs prove encryption was in place at the time of a potential breach
- Compliance with data protection regulations such as HIPAA, HITECH, Sarbanes-Oxley, federal guidelines, and state Safe Harbor requirements
- Remote drive provisioning, decommissioning, and crypto-erase
- Integration with Microsoft® Active Directory
- Single sign-on and automated user password recovery
- Support for Opal 1.0 and 2.0 SEDs
- Available on Windows 8.1, 8, 7 or Vista

Wave's SED management solution is available via two options: cloud service (Wave Cloud) or on-premise (EMBASSY Remote Administration Server, i.e. ERAS).

Wave Cloud

When managing SanDisk SEDs with Wave Cloud, IT can remotely set up and manage drives through its intuitive web interface, without maintaining on-site servers. Wave Cloud can securely manage your SED deployment and help ensure you are compliant with data protection regulations. For organizations transitioning gradually to SEDs, Wave Cloud can manage mixed deployments of SEDs and OS-native encryption features such as Microsoft® BitLocker or Mac OS X FileVault 2.

Wave ERAS

ERAS manages some of the biggest deployments of SEDs in the world. ERAS offers the same customizable policies, complete drive lifecycle management, and proof of compliance as Wave Cloud, but is hosted by on-site servers and does not use the web-based interface. In addition to SEDs, the ERAS console also has the ability to manage Trusted Platform Modules (TPMs), hardware security chips that ship standard on most business class platforms and provide a foundation for strong, multi-factor authentication and device identity programs.

¹As compared to 7200 RPM SATA 2.5" hard drive. Based on published specifications and internal benchmarking tests.

Your Partners for Secure Data

With Wave-managed SanDisk SE-SSDs, businesses can rest assured that their sensitive data is protected in compliance with data protection regulations, and that their employees can work in the field securely and productively. No more expensive add-ons, no more sluggish software encryption, no more anxiety over lost laptops – enterprises can secure data right on the drive, and let employees get back to what they're passionate about.

For more information on SanDisk products, visit www.sandisk.com.

For more information on Wave Systems products, visit www.wave.com/products.



SanDisk®

At SanDisk, we're expanding the possibilities of data storage. For more than 25 years, SanDisk's ideas have transformed the industry, delivering next generation storage solutions for consumers and businesses around the globe.

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