

MODELS

SafeDisk 2.5"



Dimensions (mm)
SafeDisk: L100 x W70 x H7

PRODUCT	CAPACITY	CODE
SafeDisk 2.5"	256GB SSD	LT02-1EP1
SafeDisk 2.5"	512GB SSD	LT02-1EP2
SafeDisk 2.5"	1TB SSD	LT02-1EP3

PRODUCT FEATURES

Total protection of data

SafeDisk is an internal laptop hard drive with an embedded, tamper-proof crypto module performing full-disk AES encryption using 256-bit keys transferred from a smart card.

It uses 128GB - 1TB SSDs in a 2,5" casing, and communicates over the SATA III protocol.

It works with standard smart card readers or a Hiddn USB token.

Use case

A typical use case for the SafeDisk suite is organisations with very strict safety requirements for carrying sensitive information, e.g. a national security agency or a health care unit.

SafeDisk can be customized to meet your individual or organisational demands.

Card Management System (CMS)

The optional CMS enables the IT department to keep control of keys, units and users. Hiddn's CMS is a software application that allows the IT administrator to generate encryption keys and certificates, and to manage the various user profiles and encryption devices in an organization.

DATA ENCRYPTION KEY

The Hiddn SafeDisk uses a Data Encryption Key (DEK) to encrypt/decrypt data on a disk.

The DEK is transferred to the Hiddn SafeDisk from a user smart card after the user has been authenticated.

Transport Layer Security (TLS) is used to provide a secure and

authenticated transfer of the DEK, and in this lies the use of a number of additional keys and digital certificates. Before the Hiddn SafeDisk can receive a DEK from a user card, it must first be initialized by a Crypto Officer smart card.

The initialization procedure will load onto the Hiddn SafeDisk a set of

keys including a Key Encryption Key (KEK) that is used to decrypt the DEK received from a User Card, since the DEK itself is encrypted. Along with the keys, certificates are also loaded onto the Hiddn SafeDisk used to prove the authentication and ownership of the keys.

TECHNICAL SPECIFICATIONS

Encryption algorithm	AES-256 XTS
Interface	SATA III
Approvals in process	FIPS 140-2 LEVEL 3
Capacities	128GB - 1TB SSD
Authentication mode	7-16 digit PIN + smart card
Read Only	Will soon be introduced
Tamper-proofed	✓
Brute-force defense	✓
Transfer speed	150 MB/s
2-factor authentication	✓
Bootable	✓
Resistant to keyloggers	✓
Encryption key stored separately	✓

ADDITIONAL FEATURES

- > No software or drivers required.
- > FIPS 140-2 Level 3 physical tamper-resistance and identity-based authentication.
- > FIPS 140-2 Level 4 tamper-responsive smart cards.
- > Flexible data encryption key options
- > Key lifetime
- > Direct zeroization resets unit to factory default state.

MODELS

SafeDisk 2.5"

SMART CARD



SECURITY FEATURES

HIDDEN'S ADVANTAGE
**DESIGNED, DEVELOPED
AND ASSEMBLED
IN NORWAY**

Two-factor authentication
The smart card and the secret passphrase (PIN) are the two factors required to be granted access to the data. Something you have and something you know.

PIN and PUK administration
Users can change passphrase. A PUK can reopen the smart card and the user can set a new PIN/PUK. To many failed attempts to enter PUK will permanently lock the smart card and erase all data.

Data Recovery
An unfortunate user entering the wrong passphrase too many times does not have to face erased data, but may still recover from the situation of a locked storage device by entering the PUK.

Smart cards
Hiddn's smart cards are effectively small, secure computing devices that contain advanced key management and transfer technology. The smart cards are tamper-proofed in accordance with Common Criteria-principles for physical security (CC EAL5+).

Password attack protection
All data encryption keys are encrypted, stored in Common Criteria EAL 5+ certified tokens (Smart Cards) and protected by PIN security measures.

External encryption key
The unique feature of Hiddn's solution is that the encryption key is actively deleted from the SafeDisk when the system is shut down. Instead, it is stored encrypted on a separate, tamper-proof smart card. This provides an unmatched level of security which has been approved and applied by various military, governmental and national security agencies to store highly sensitive information.



GDPR-PROOF
GUARANTEE



APPROVED
SUPPLIER TO
THE NORWEGIAN
ARMED FORCES

