

[hiddn]TM eSATA Plug&Protect



User Guide

Off-the-shelf version with two random generated Smartcards (keys) included

VERSION 1.0

1. Introduction

Thank you for purchasing the **[hiddn]TM eSATA encrypted** bootable storage unit.

At all times please remember to regularly back-up your data.

Please take the time to read this Guide carefully as it contains important information on how to use the **[hiddn]TM eSATA**.

1.1. Box Contents

- **[hiddn]TM eSATA** - External eSATA encrypted bootable storage unit with/without 2.5" SATA hard disk drive with capacities up to 1.5 TB (standard versions with either 250 GB, 500 GB or 1 TB).
- 1 "User Smartcard" and 1 "Backup Smartcard"

2. System Information

The **[hiddn]TM eSATA** you have purchased can be plugged into the PC's eSATA-connector and authenticate for a bootable, fully encrypted, efficient, external storage media.

To ensure proper operation of the **[hiddn]TM eSATA** when connected, the following should be noted:

- The **[hiddn]TM eSATA** unit can be delivered with 250 GB, 500 GB or 1 TB internal SATA hard disk drive (any capacity 2.5" SATA drive can be installed).
- eSATA interface to PC / Laptop (supports eSATAp).
 - SATA-I (150 MB/s / 1.5 Gb/s)
- Operates in various configurations:
 - AHCI (NCQ with zero queue depth (NO NCQ))
 - IDE/ATA (if supported on eSATA PC/Laptop port)
- Supports up to ATA-5/ATAPI-5
 - Up to and including UDMA5 – 100 MB/s
 - Typical read: 65 - 75 MB/s
 - Typical write: 45 - 60 MB/s
- OS independent
- Requires no special drivers to be installed
- Power:
 - Via eSATAp (power and data) – cable included
 - Power plug (5V DC) (power supply not included)
 - microUSB (power only - cable not included)
- Enclosure:
 - Aluminium extruded profile / Plastic covers (front/back)
 - Measurements: L: 152mm W: 78mm H: 34 mm
 - Weight: 0.410 kg incl. cable and 250 GB hard disk drive

3. Installation

Installation of the [hiddn]TM eSATA is performed as follows:

3.1. First –time Initialization

The first time you are using the [hiddn]TM eSATA will act as the *Initialization procedure*, where you enable the encrypted bootable storage unit to recognize the Smartcard. Please follow the instructions below carefully.

Please make sure that the encrypted bootable storage unit is connected to your computer as described below before the unit can be *initialized as follows*:

1. Power on the computer
2. Connect the [hiddn]TM eSATA to your computer with the eSATAp (power and data) – cable. If your computer does not support power via the eSATA connector, please connect only to power (microUSB or power plug) during the Initialization procedure.
3. Observe that the STATUS LED of the [hiddn]TM eSATA shows a blinking yellow light.
4. Gently insert and remove the *User Smartcard* 4 times with the chip side facing down leaving it inserted upon the 4th insertion.
5. During insertion the LED will blink yellow and green, but shortly after the 4th insertion it will change to a steady green light (make sure to leave it inserted for at least 15 seconds).
6. Once the status LED shows a steady green light, disconnect the [hiddn]TM eSATA and connect it back on, ensuring the *User Smartcard* is inserted with the chip side facing down.
7. With the User Smartcard inserted, the [hiddn]TM eSATA can be used as an encrypted bootable storage unit or a normal external storage device.

NOTE: *Always store the User Smartcard in a safe place once you have removed it from the [hiddn]TM eSATA unit.*

4. Normal operation

1. Connect the [hiddn]TM eSATA to your computer with the eSATAp (power and data) – cable.
2. Insert the *User Smartcard* with the chip side facing down
3. Power up your computer and you are ready to encrypt/decrypt data on the unit or boot from the encrypted bootable storage unit

5. Use of the Backup Key Token

If you ever lose the *User Smartcard*, you can use the *Backup Smartcard* to get access to your data. Before using the *Backup Smartcard* for normal operation, you must initialize it. To initialize, follow steps 1 – 6 in section 3.1

After initialization, the *Backup Smartcard* can be used for normal operation as if it was the *User Smartcard*.

IMPORTANT

Please note the following when using your **[hiddn]TM eSATA**:

- The **[hiddn]TM eSATA** is delivered with two Smartcards containing random generated encryption keys.
- HDD can IN NO CASE reproduce either of these Smartcards, if lost or rendered unusable by customer.
- If the User Smartcard is lost or becomes unusable, it is strongly recommended to use Backup Smartcard to make a backup of your data stored on the device to another storage device. Then a new set of Smartcards should be ordered (see below).
- A NEW set of User and Backup Smartcards can be ordered from HDD. This will NOT give access to any data stored prior to using this new set of Smartcards (all data stored with previous Smartcards will be lost unless you have made a backup that can be restored onto your storage device after the new set of Smartcards is initialized).
- If your organization has access to **[hiddn]TM Key Management System**, lost or unusable cards can be substituted (reproduced).
- HDD accepts no responsibility for any data lost or left inaccessible due to loss or misuse of Smartcards.

HDD offers a Key Management System (KMS). This proprietary administrative utility system is for managing lifecycle functions of **[hiddn]TM** Smartcards and the accompanying **[hiddn]TM** products. It is designed for larger organizations, value added resellers, IT managers of business organizations and other organizations deploying **[hiddn]TM** technology. The KMS is delivered as a dedicated workstation (a server configuration of KMS is optionally available).

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