

# **[hiddn]<sup>TM</sup> SATA Adapter**



## **User Guide**

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

**VERSION 1.3**

## 1. Introduction

Thank you for purchasing the **[hiddn]**™ SATA Adapter!

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

### 1.1. Box Contents

- **[hiddn]**™ SATA Adapter
- 1 “User Smartcard” and 1 “Backup Smartcard”

## 2. System Information

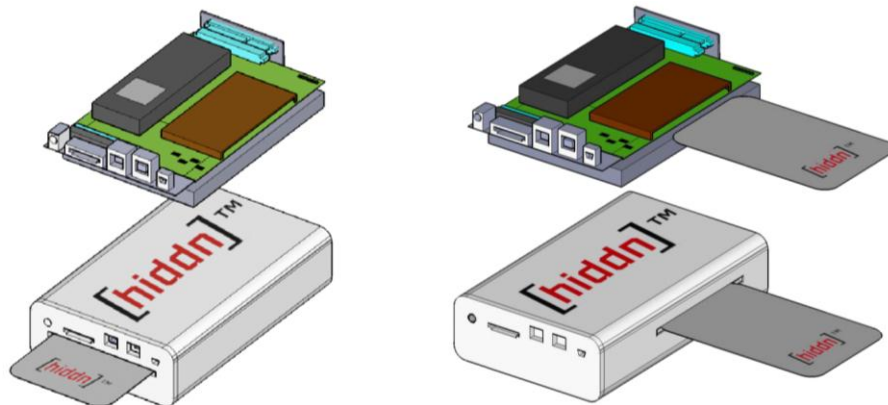
The **[hiddn]**™ SATA Adapter you have purchased can be installed into any system for full-disk encryption of SATA storage media.

Physical dimensions of the **[hiddn]**™ SATA Adapter is identical to a 2,5” hard disk drive, 70mm x 100mm. Mounting holes fit the standard mounting holes for a hard disk drive. SATA-connectors are placed on both edges of the unit, and there is a card reader on both sides of the **[hiddn]**™ SATA Adapter to support your preferred mounting.

To ensure proper operation of the **[hiddn]**™ Desktop unit when installed, the following should be noted:

- OS independent
- BIOS must be set to IDE / ATA (NCQ / AHCI is not supported)  
(Internal buffering in the Crypto Module allows for increased performance )
- Supports up to 100 MB/s (UDMA-5)

Examples of use:



**[hiddn]**™ SATA Adapter – w/ Disk & w/ Disk in Enclosure – Conceptual



**[hiddn]<sup>TM</sup> SATA Adapter – w/ Disk and SATA/USB nose**

### 3. Installation

Installation of the **[hiddn]<sup>TM</sup> SATA Adapter** is a two part process; physical connection and the initialization process.

#### 3.1. Physical Connections

The SATA Adapter must first be connected to your storage device before it can be *initialized*. Examples of applications (units):

- Desktop computer
- Copier
- USB-drive
- Other

Connect the **[hiddn]<sup>TM</sup> SATA Adapter** according to the instructions for installation provided by the manufacturer of your unit.

#### 3.2. First-time Initialization

The first time you are using the **[hiddn]<sup>TM</sup> SATA Adapter**, this will act as the *Initialization procedure*, where you enable the unit to recognize the enclosed Smartcard. Please follow the instructions below carefully.

Please ensure the SATA-adapter is connected as described below before the SATA adapter can be *initialized* as follows:

1. Connect **ONLY** the power cable to the SATA Adapter – leave all other connectors un-

- connected - to ensure a smooth initialization process not interfered by any other communication.
2. Observe that the STATUS LED of the **[hiddn]<sup>TM</sup> SATA Adapter** shows a blinking yellow light.
  3. Gently insert (and remove) the *User Smartcard* 4 times with the chip side faced towards the PCB (Printed Circuit Board). Leave it inserted for some seconds every time, and leave it inserted upon the 4<sup>th</sup> insertion.  
During insertion the LED will blink yellow and green, but shortly after the 4<sup>th</sup> insertion it will change to a steady green light (make sure to leave it inserted for at least 15 seconds).
  4. Once the status LED shows a steady green light, disconnect the **[hiddn]<sup>TM</sup> SATA Adapter power plug** and connect the **SATA Adapter** again using **all connectors** (power, motherboard SATA cable and SATA disk), ensuring the *User Smartcard* is inserted with the chip side facing down.
  5. Observe that the status LED shows a steady green light again
  6. The unit is now ready for normal operation and the **[hiddn]<sup>TM</sup> SATA Adapter** will operate any connected SATA drive as long as the Smartcard is inserted.

**NOTE:** *Always store the User Smartcard in a safe place once you have removed it from the [hiddn]<sup>TM</sup> SATA Adapter. The Backup Smartcard should always be stored in a safe place.*

#### 4. Normal operation

Normal operation of the **[hiddn]<sup>TM</sup> SATA Adapter**.

1. Insert the *User Smartcard*, power on your unit and you are ready to encrypt/decrypt data on the device.

#### 5. Use of the Backup Smartcard

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 3.2.

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]<sup>TM</sup> SATA Adapter**:

- The **[hiddn]<sup>TM</sup> SATA Adapter** is delivered with two Smartcard 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]<sup>TM</sup> 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]<sup>TM</sup> Smartcards** and the accompanying **[hiddn]<sup>TM</sup> products**. It is designed for larger organizations, value added resellers, IT managers of business organizations and other organizations deploying **[hiddn]<sup>TM</sup> technology**. The KMS is delivered as a dedicated workstation (a server configuration of KMS is optionally available).

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