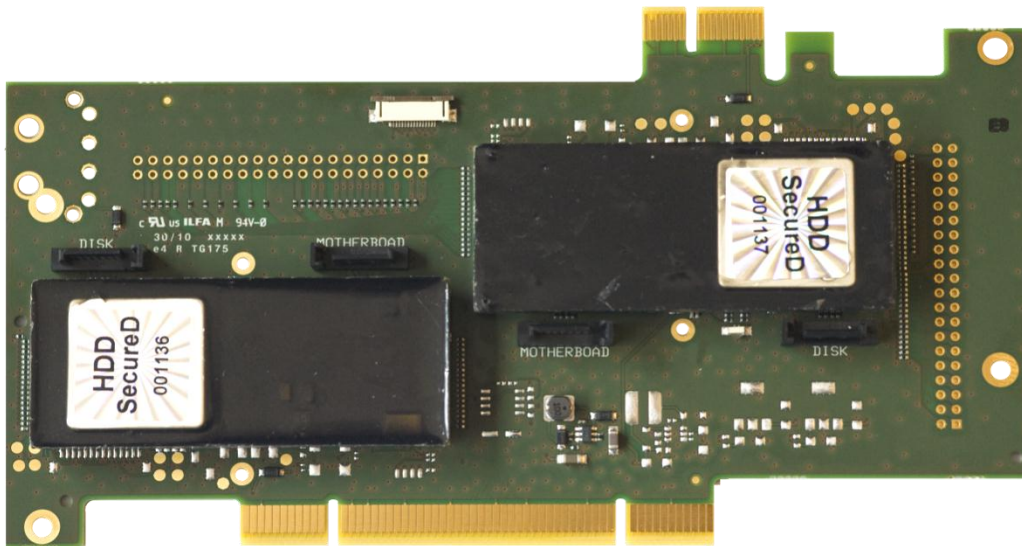


[hiddn]TM Desktop



Installation and User Guide

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

VERSION 1.4

Thank you for purchasing the **[hiddn]TM Desktop!**

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

1. Introduction

[hiddn]TM Desktop safeguards your data anywhere. All data stored on a computer with **[hiddn]TM Desktop** installed will be encrypted, and without the Smartcard the data cannot be accessed. The **[hiddn]TM Desktop** unit can be equipped with one or two crypto modules (CM) to allow for up to two encrypted hard disk drives. When the unit is equipped with one CM, the connector for channel 1 should be used. If equipped with two CMs, the 2nd channel can be used for an additional internal hard disk drive.

1.1 Box Contents

- **[hiddn]TM Desktop** unit
- Smartcard reader with cable for connection to Desktop unit
- 1 “User Smartcard” and 1 “Backup Smartcard”(4 smartcards for 2 channels)

Note! You will need 1 or more SATA-cables for the installations. A short cable between the Motherboard and the motherboard port on the **[hiddn]TM Desktop** unit is recommended. Cables are not included (optionally available).

1.2 Pre-requisites (System Requirements)

1.2.1 General

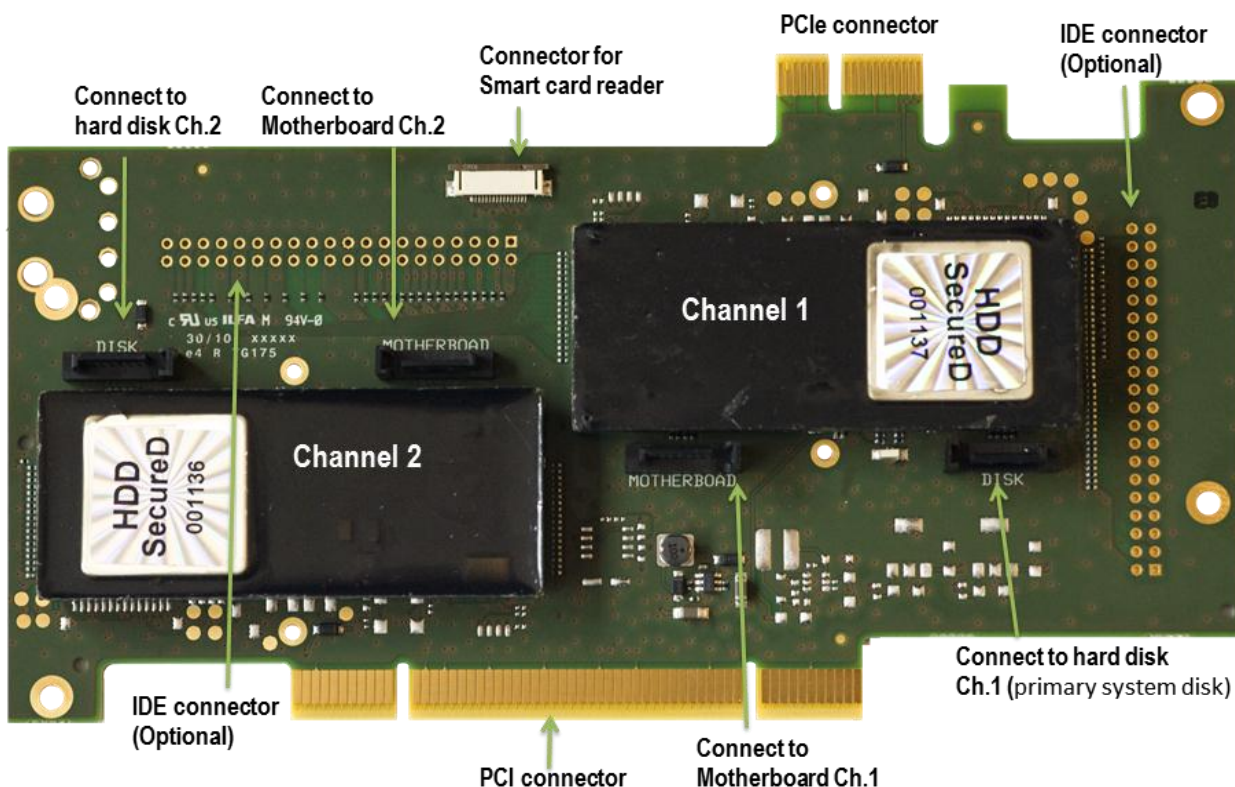
To ensure proper operation of the **[hiddn]TM Desktop** unit when installed, the following system requirements should be noted:

- 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)

2. Physical Installation.

2.1 Installing the **[hiddn]TM Desktop** in Your Computer – PART I.

The **[hiddn]TM Desktop** is Serial-ATA compliant and connects with Serial-ATA disks. HDD recommends that the **[hiddn]TM Desktop** is connected to the primary system disk, although this is not mandatory. If you are in doubt whether you have a Serial-ATA hard drive, consult the documentation enclosed with your computer or contact your computer supplier. Do **not** connect any of the SATA-cables before you have completed section 2.2 below (this to ensure a smooth initialization process not interfered by any other communication).



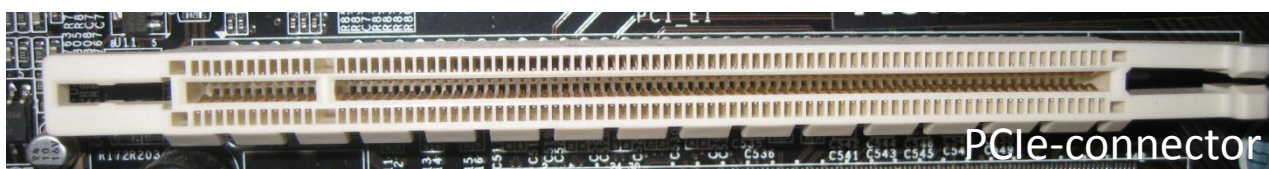
Please ensure anti-static precautions are taken before beginning the installation.

If you have a CD/DVD reader/writer, this should remain connected as it is.

Before starting installation, carefully read the instructions provided by your computer manufacturer concerning removal of casing and installation of hardware.

Unscrew and remove the computer casing and open the computer to access the PCI or PCIe slots at the back of the computer.

Ensure that there is a free PCI or PCIe slot available.



Install the Desktop unit into the unused PCI or PCIe-slot in the computer, following the instructions for installation provided by your computer manufacturer.

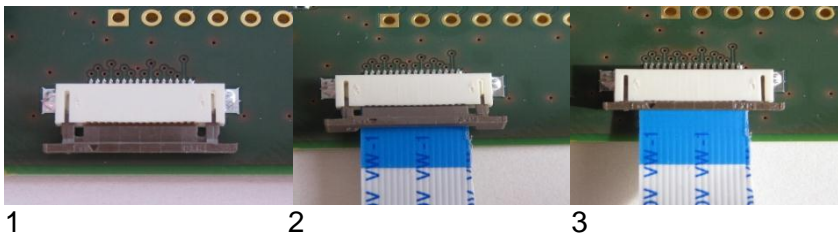
Please ensure that the metal bracket is mounted on the correct side of the card depending on the use of PCI or PCIe connector.

Start with the installation of the Smartcard reader

- Insert the Smartcard reader in the front of your computer.



- Extract the cable and place it close to the location of the **[hiddn]™ Desktop** unit.
- Connect the Smartcard reader cable to the connector on the **[hiddn]™ Desktop** unit.
- Please note, blue side of cable facing up.



Continue with the installation of the **[hiddn]™ Desktop** unit:

- Insert the **[hiddn]™ Desktop** unit in the appropriate PCI(e)-slot and ensure that the unit is firmly in place and that it is perfectly aligned and connected.

2.2 First –time Initialization (before you connect the SATA-cables)

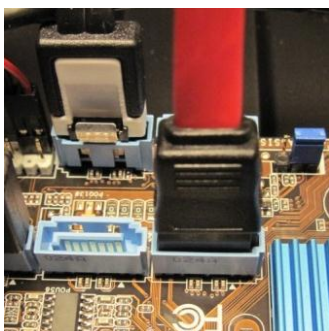
The first time you are using the **[hiddn]™ Desktop** you must go through the *Initialization procedure*, where you enable the unit to recognize the User Smartcard. Please follow the instructions below carefully (please note that this initialization has to be performed for each channel if you have a 2 channel solution).

1. Power on the computer
2. Observe that the status LED of the **[hiddn]TM Desktop** shows a steady yellow light (for channel one observe LED 1 – for the second channel observe LED 2).
3. Gently insert (and remove) the User Smartcard 4 times with the chip side facing down (keep it inserted for at least three seconds every time), and leave it inserted upon the 4th insertion (for at least 15 seconds).
(As the **[hiddn]TM Desktop** and the Smartcard reader is prepared for 2 channels, please make sure to use the appropriate Smartcard reader)
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).
4. Once the status LED shows a steady green light, power off the computer and power back on, ensuring the User Smartcard is inserted
5. Observe that the (appropriate) status LED shows a steady green light

Now continue as follows:

2.3 Installing the **[hiddn]TM Desktop** in Your Computer – PART II.

Do **not** connect any of the SATA-cables before you have completed section 2.2 above. When the initialization is successfully performed (ref. above), please continue the physical installation as follows:



- Connect one end of a Serial-ATA cable to the motherboard of your computer and the other end to the “Motherboard”-connector on the **[hiddn]TM Desktop**.
- Connect one end of the other Serial-ATA cable to the Hard Disk-connector on the **[hiddn]TM Desktop** and the other end to the hard drive of your computer.
- Please assure that the right connectors are used (channel 1 or both channels - one channel can encrypt/decrypt one hard disk - the **[hiddn]TM Desktop** is prepared for 2 channels).



- Close / refit the casing of the Computer and begin initialization

The computer is now ready for normal operation and the **[hiddn]TM Desktop** will operate as long as the Smartcard is inserted (users with KMS may set the solution to have other behavior - please consult the KMS manual).

NOTE: *Always store the User and Backup Smartcards in a safe place once you have removed it from the computer.*

3. 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 2.2.

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]TM Desktop**:

- The **[hiddn]TM Desktop** 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 keyset 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 connected hard disk 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 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 optional available.

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