

**Securing the
Global
Village**



Hardlock®

THE KEY TO SOFTWARE SECURITY

Quickstart

Aladdin®

SECURING THE GLOBAL VILLAGE

Welcome!

You have selected the Hardlock system which enables you to market secure and protected versions of your software.

Hardlock is a comprehensive protection system with a wide range of options and individual settings.

These quickstart instructions help you to get to know the system quickly. They are only concerned with the most straightforward and fastest protection method. Please refer to the detailed documentation if you want to familiarize yourself with all the options and get the most out of the software: the manual in printed or PDF formats and the help files for the programs.

You can also visit our website at the following address:

http://www.aladdin.de/hardlock_english

You will always be able to download the latest software from there.

Hardware

The Hardlock package contains the hardware you need to protect your software.

- A **red Hardlock module** (HL-Crypt) which enables you to use the full range of Hardlock functions.
Connect the red Hardlock module to a parallel port on your computer.
- A **Crypto-Programmer Card** (CP card) or a **USB Master Hardlock**. You need one of these items in order to encode your Hardlock modules individually.
Install the Crypto-Programmer Card in accordance with the instructions, or connect the USB Master Hardlock to a parallel port (however, not onto the CP card).
- One or more **Hardlock modules** (depending on your order). In order to protect a program, you have to encode at least one of these Hardlock modules individually using your Crypto-Programmer Card or the USB Master Hardlock. Connect a Hardlock module to the parallel port on the installed Crypto-Programmer Card or to a USB slot.



The test package only contains the CD and two test modules with a module address set to 29809 that cannot be changed. You will receive the Crypto-Programmer Card and the red HL-Crypt module with your first order.

Software

The Hardlock CD contains everything you need to protect your software:

- **Various drivers** which are needed to enable your computer to detect the Hardlock module.

The drivers are installed by the CD installation routines. Alternatively, use the HLDREV32.EXE file (for Windows NT, 2000, 95/98/ME/XP).

- **Hardlock Bistro** with the following programs: **Espresso**, **Cappuccino**, **Gazzetta** and **Latteccino**. These enable you to protect your software quickly, easily and securely.



Hardlock Bistro is installed by the CD installation routines. Alternatively, use the BISTRO32.EXE file in the SETUP folder.

- **API libraries** for manual protection
- **Samples** for various compilers
- **Server software**
- **Utilities** for end-users

Installing the CP card

You require the Crypto-Programmer Card to encode all your Hardlock modules uniquely except for Hardlock USB.

Preparing the hardware

1. Use a wrist grounder to ground yourself or briefly touch a metal part of the computer housing.
2. *Carefully* unpack the card. Avoid touching any components or connection contacts when doing this. If you do, there is a risk of irreparable damage to components due to static discharges.

Installing the card

1. Switch off the computer and disconnect the mains plug. Disconnect any other cables if required and open the housing.
2. Use a wrist grounder to ground yourself or briefly touch a metal part of the computer housing. Select an unused PCI slot and remove the corresponding slot cover from the computer housing.
3. Install the card into the PCI slot. Make sure the slot cover is pointing towards the housing. First, carefully press the side facing away from the computer housing into the interface, then the side facing the housing.
4. Tighten the slot cover onto the computer housing. Put back the housing cover, reconnect the computer to the power supply and connect the cables which were removed previously.

Steps for software protection

Once you have installed the necessary hardware and software, you can protect your software with the following steps:

Preparing the Hardlock module

Encode a Hardlock module with **Cappuccino**. This Hardlock module forms the basis for your program protection and for encoding additional Hardlock modules for your customers.

Protecting a program

Protect your program with **Espresso**. You use your individually encoded Hardlock module to do this. Afterwards, the program will only run in conjunction with the Hardlock module you used when protecting it.

Encoding Hardlock modules for your customers

Once you have protected your program, encode Hardlock modules for your customers using the same template as with the first Hardlock module. You ship the Hardlock module together with the program.

The three steps involved are described in the following overview. Call up the help for the program in question to find out more details. Please refer to the Hardlock manual for more information about this and other protection methods.

Preparing a Hardlock module (parallel port)

During encoding, you define the module address and the encryption behavior of the Hardlock module.

Pre-requisites

Installed software

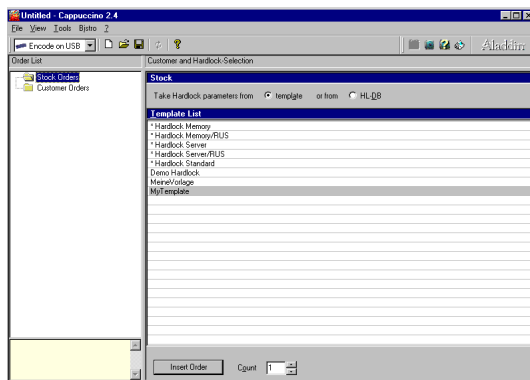
- Drivers
- Hardlock Bistro

Installed hardware

- Crypto-Programmer Card
- Red Hardlock module on a parallel port (**not** on the Crypto-Programmer Card)
- Hardlock module to be encoded on the parallel port of the Crypto-Programmer Card

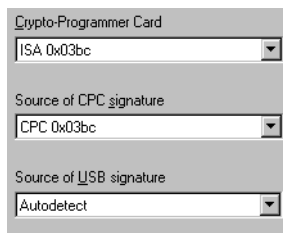
Preparation

1. Start the **Cappuccino** program from **Hardlock Bistro** either using the **Programs** menu or Windows Explorer.




2. Select **Settings** from the **File** menu and switch to the **Crypto-Programmer Card** tab.

3. Select which CP card and which signature you want to use for encoding your Hardlock module.
4. Confirm your changes with **OK**.
5. In the symbol bar, set that you want to use the Crypto-Programmer Card for encoding.



Creating a template

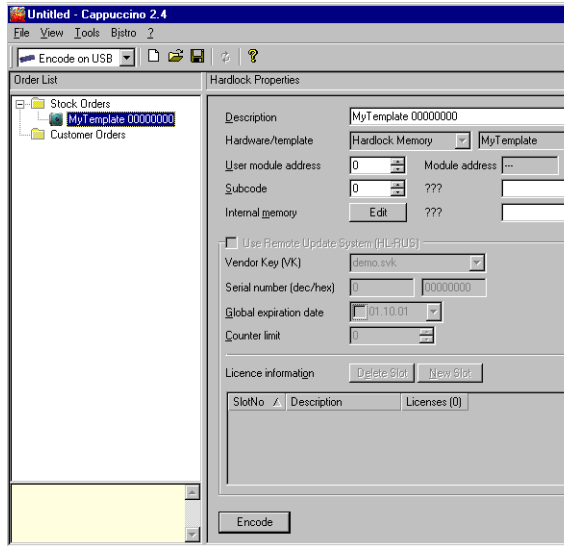
1. Select **Tools/Template Manager**.
The **Template Manager** dialog box opens.
2. Click the  symbol to create a new template.
Alternatively, you can copy one of the model templates, rename it and edit it.
3. Define the properties of the template in the right-hand part of the window.
4. Click the **Save** button to save the template.

Creating an order list

1. Select the **Stock Orders** folder in the left-hand part of the window.
2. In the right-hand part of the window, select the template which you want to use to encode the Hardlock module. Make sure that the template is appropriate for the type of Hardlock module which you want to encode. You can adapt the template to your individual requirements in the Vorlagenmanager.
3. Add the job to the order list using **Insert Order**.

Encoding Hardlock modules

1. Select the Hardlock module in the order list in the right-hand part of the window.
2. You can edit the individual properties of the Hardlock module in the left-hand part of the window.



3. Encode the connected Hardlock module by clicking the **Encode** button.
4. Make a note of the generated module address. You will need the address to find the right Hardlock module during the protection process.

Preparing a Hardlock module (USB port)

During encoding, you define the module address and the encryption behavior of the Hardlock module.

Pre-requisites

Installed software

- Drivers
- Hardlock Bistro

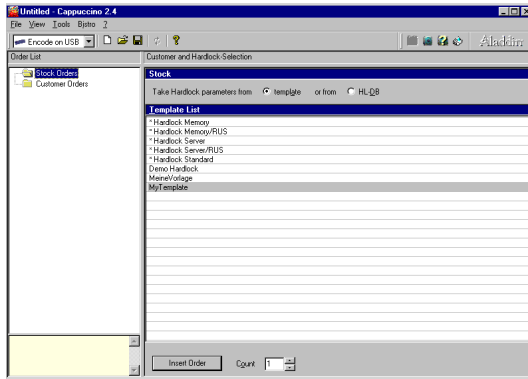
Installed hardware

- Red Hardlock module on a parallel port (**not** on the Crypto-Programmer Card)
- USB Master Hardlock on a parallel port, even on the back of the red Hardlock module (**not** on the Crypto-Programmer Card)
- Hardlock module to be encoded on a USB slot



Preparation

1. Start the **Cappuccino** program from **Hardlock Bistro** either using the **Programs** menu or Windows Explorer.



2. Select **Settings** from the **File** menu and switch to the **Crypto-Programmer Card** tab.
3. Select the USB Master Hardlock from the list in the **Source of USB signature** box, or have the program search for it automatically.
4. Confirm your changes with **OK**.
5. In the symbol bar, set that you want to use a USB slot for encoding.



Further procedure

The remainder of the procedure is the same as for Hardlock modules on the parallel port.

Protecting a program

If you want to protect a program automatically, you change it so that it will only run in conjunction with the Hardlock module that you have encoded.

Pre-requisites

Installed software

- Drivers
- Hardlock Bistro

Installed hardware

- Pre-encoded Hardlock module on a parallel port or USB port

Preparation

1. Start **Hardlock Bistro** using the **Programs** menu or Windows Explorer.
2. Start **Espresso Wizard**.



Protecting a program with the Wizard

1. Connect the prepared Hardlock module to a parallel port or USB port.
2. Enter the module address of your individually encoded Hardlock module.
You will need the address to find the right Hardlock module.
3. Enter which program you want to protect.
4. Start the protection process with **OK**.
The protected program is stored in a temporary folder.
The main **Espresso** program is then started. The project created during the protection process is opened.
5. Save the protection project.

Defining project settings

You can define individual project settings in **Espresso** instead of or after using the Wizard:

- Add extra program files to the project.
- Edit protection settings.
- Include data files into the protection and encrypt them.

Encoding Hardlock modules

You encode additional Hardlock modules for your customers on the basis of the Hardlock module you used during the protection process.

Pre-requisites

Installed software

- Drivers
- Hardlock Bistro

Installed hardware

- Crypto-Programmer Card or USB Master Hardlock
- Red Hardlock module on a parallel port (not on the Crypto-Programmer Card)
- Hardlock module to be encoded on the parallel port of the Crypto-Programmer Card or on a USB slot

Preparation

1. Start **Hardlock Bistro** using the **Programs** menu or Windows Explorer.
2. Start **Cappuccino**.
3. Select **Settings** from the **File** menu and switch to the **Crypto-Programmer Card** tab.
4. Select the source of the signature for the encoding routine.
5. Confirm your changes with **OK**.

Creating an order list

The order list allows you to group together several encoding jobs.

1. Select the **Stock Orders** or **Customer Orders** folder in the left-hand part of the window.
2. In the right-hand part of the window, select the customer or customers (as appropriate) and the template which you want to use to encode the Hardlock module. Make sure that the template is appropriate for the type of Hardlock module which you want to encode. You can adapt the template to your individual requirements in the Vorlagenmanager.
3. Add the job(s) to the order list using **Insert Order**.

Encoding Hardlock modules

1. Select the Hardlock module in the order list in the left-hand part of the window.
2. You can edit the individual variable properties of the Hardlock module in the right-hand part of the window.
3. Encode the connected Hardlock module by clicking the **Encode** button.
The encoded Hardlock module is identified with a lightning flash.
4. Remove the Hardlock module from your computer, connect a new Hardlock module and repeat the encoding procedure.
5. Save the order list.

Do you want to find out more?

Documentation

You can find out detailed information about the Hardlock system by referring to the manuals which you have been given in printed and PDF formats.

Internet

Visit us on the Internet. You can find out the latest information as well as downloading the newest software.

http://www.aladdin.de/hardlock_english

Sales

Do you have any questions about our products and prices, or do you want to place an order? Please contact our sales team. You find the relevant addresses for your region on the Internet:

<http://www.ealaddin.com>

Support

Our support team will be pleased to assist you in case you are experiencing technical difficulties. You find the relevant addresses for your region on the Internet:

<http://www.ealaddin.com>