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Feitian Software Protection Dongle

Product Brochure

HIGH SECURITY PERFORMANCE * INCREDIBLE LOW COST * TRY ROCKEY FAMILY DONGLE * THE EARLY YOU START * THE MORE YOU SAVE

ROCKEY

ROCKEY - SOFTWARE LICENSING - MEDIA COPYRIGHT PROTECTION - ANTIPIRACY



About

? What is ROCKEY

- A sort of CPU or smart card based security device, either with USB or LPT interface for PC host connection, providing secured information storage, challenge-response authentication and cryptographic calculation functions, for software licensing, data encryption, software copy protection and software piracy protection

ROCKEY family products are designed to help software developers to protect their software intellectual property rights through ROCKEY's advanced hardware based protection system thus prevent revenue loss due to software piracy. The small and exquisite device can be easily distributed and applied to the software. ROCKEY's user friendly integration tools make protecting software copy-right never been so easy.

ROCKEY offers full-range-solution from most cost-effective secure chip device to latest 32bits high performance smart card chip device. The industrial innovative .NET protection dongle, USB Flash disk embedded dongle are also available.

? Where to use

- Any software has the requirements for protection against illegal copy and piracy.

Any application needs license management and control system with advanced remote update capability.

Any system demands the flexible authentication mode including date based, elapse period based, used times based, network based authentication.

Any data requires being encrypted with advanced cryptographic algorithms, seamlessly integrated into the operating system and transparent to both developers and users.

? Why ROCKEY

- Being an industrial leader and innovator in the field of information technology security applications and devices, Feitian Technologies, the provider of ROCKEY, offers millions of ROCKEY products to the market, and is currently the number one provider of software protection dongle to Chinese market. With a strong technical team of hundred developers and support engineers, Feitian offers top-ranking ROCKEY products and services to its valuable customers. We understand that customer requirements varies from field to filed, Feitian provides more flexible and fast-response customization services to satisfy different clients.

? When can I start

- Just spend few minutes to pick up what you need from our website at www.FTsafe.com, submit your inquiry online, you may be qualified to get a **FREE SDK** and start your incredible journey to enjoy all benefits brought to you by ROCKEY

the lowest cost security device you may trust

ROCKEY2

**LOWEST
PRICE**

ROCKEY2 is one of the most cost-effective software protection dongles. It is built with 2560bytes EEPROM, which can meet most requirements for storing more on-chip data. ROCKEY2 is also a standard USB interface based HID device, which can be driverless under Windows, Linux and MAC etc., thus make it easy to use and very low cost.

Each ROCKEY2 dongle contains a globally unique Hardware ID for developers to identify the device. HID is the unchangeable ID that has been burn into the dongle during production. Another User ID is also provided for developers to distinguish different clients. Developers can generate their own UID by inserting up to 64 bytes of Seed Code. UID is the key for users to access the content stored in dongle memory.

Software vendors can apply the dongle with either enveloper tool or programming APIs. The enveloper tool can protect the executable program with well designed shell encryption technique. No extra developing work is required. For advanced developers, the programming API is the best choice. Almost all the programming languages and environments are supported. The fluent and luxuriant sample codes make developing work enjoyable.

Features

- USB Non-driver Device under Windows, Linux and MAC
- Mass Capacity Secure Memory
- Automatically Protect Windows PE (.exe, .dll) program, Flash Media, .NET program and Linux application
- Universal Unique Hardware ID
- Samples available for BCB, Delphi, FoxPro, PowerBuilder, Python, Visual Basic, VBA, Visual C++, C# etc.
- Standard USB 1.1 Device. Support USB 2.0 Interface

a money saver you must know



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Software Enveloper

Tool

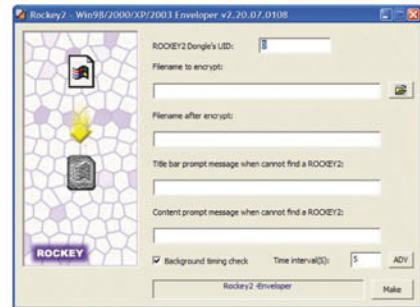
PE Enveloper

Insert Dongle & Input Password

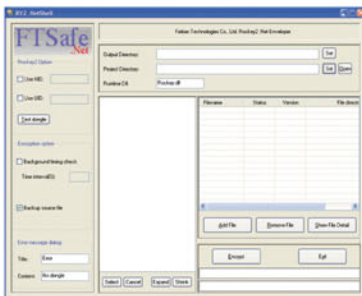
Select Program & Configure Error Message Window

Click the Button to Protect!!

- **Three Easy Steps to Protect the Software**
Developers can implement the protection to their application with 3 easy steps. No extra developing work is needed. No source code is needed. Protect the software with the enveloper tool within 1 minute.
- **Powerful High Performance Encryption Engine**
The encryption involves many advanced protection techniques. Both the binary and the resource section in the program are protected. The encrypted application can work with extra stable performance. No delay or memory cost is added in runtime.
- **Binding with Dongle Parameters**
Encrypted application can audit the dongle existence with fixed interval. Possible to bind the application with dongle's HID, UID, Module (ROCKEY4 and above models).
- **Available for ROCKEY2, ROCKEY4ND/NetROCKEY4ND, ROCKEY4 SMART, Store ROCKEY4 SMART**



.NET Enveloper



- **Easy Steps to Achieve Function Level Encryption**
ROCKEY .NET enveloper enables developers to select detailed functions in the application to be protected. Developers can easily choose the critical components in their program to apply the protection. Function level protection brings great flexibilities and optimizes performance in runtime
- **Program Protected by Advanced Cryptographic Algorithm to Anti-Decompile**
The entire code is encrypted with advanced cryptographic algorithm. The encryption key is derived from dongle hardware. Without the key, the application is in cipher form. Absolutely impossible to be decompiled
- **Support .NET Framework 1.1, 2.0, 3.x Applications**
- **Support Strong Name**
- **Available for ROCKEY2, ROCKEY4ND/NetROCKEY4ND, ROCKEY4 SMART, Store ROCKEY4 SMART**

most popular software protection dongle in the market

ROCKEY4ND

ROCKEY4ND is an advanced software protection system that attaches to the USB port of a computer. It is in fact a powerful miniature computer, with a CPU, memory and specialized firmware that allows for robust interaction with the application. Although the software may be duplicated, but it will only run when ROCKEY4ND dongle is attached. The application will interact with ROCKEY4ND at start-up and during runtime. No Dongle means No License to execute the software.

The ROCKEY4ND access security is controlled by a two levels 64bits password set. The passwords cannot be modified. The universal unique Hardware ID and developer definable User ID allow developer to restrict the software license to particular dongle and customer. One ROCKEY4ND can control 64 different applications. User defined algorithms can be executed in runtime to achieve challenge-response authentication. From ready to use enveloper tool to programming APIs, ROCKEY4ND can support both very simplistic but effective protection methods, and much more complex schemes to achieve very high level of security.

NetROCKEY4ND is the network version of the ROCKEY4ND. It not only supports TCP/IP, IPX and NETBIOS protocols, but also provides a server-based network service program. Developers only need to write programs for client end. Multiple servers, PCs and users are supported. Every module of NetROCKEY4ND can support up to 65534 clients at the same time while the service program remains protected from modification and immune to viruses.

Features

- USB Non-driver Device under Windows, Linux and MAC (LPT model also available)
- Easy to Use Enveloper Solutions to Protect Windows PE (.exe, .dll), Flash Media, .NET and Linux Applications
- Universal Unique Hardware ID. Developer Definable User ID
- 64 Modules to Control 64 Different Applications
- 128 Algorithms to Achieve Challenge-Response Authentication
- Remote Update Solution Saves the Cost in Maintenance Role
- Samples available for BCB, Delphi, FoxPro, PowerBuilder, Python, Visual Basic, VBA, Visual C++, C# etc.



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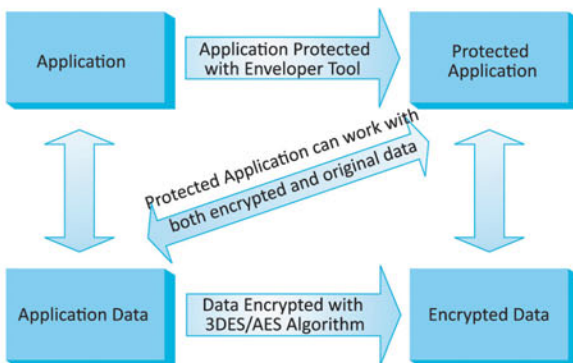
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Data Protection Tool

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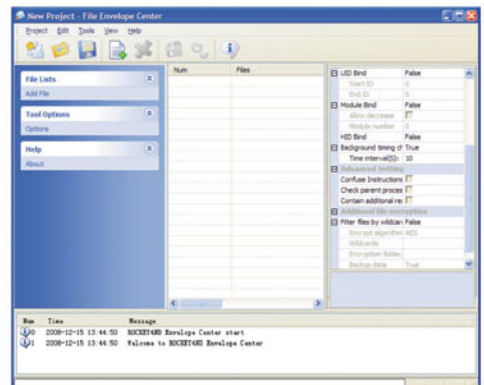
Data Encryption Enveloper



The data encryption enveloper is a new generation application protection solution which can protect both application protection and application data. The application protection is similar to ROCKEY software enveloper tool. Besides the application itself, the application related data files can also be encrypted with advanced cryptographic algorithm. The file filter technique involved enables the application work with both encrypted and unencrypted data. Furthermore, the data encryption engine is embedded to the application. New data files generated by the application are also encrypted. The encryption key is derived from dongle hardware. Without the ROCKEY dongle, the data cannot be decrypted.

**Universal Solution to Protect
Flash, Music, Movie,
Text Document, Application Data
and more.....**

- Universal Data Protection Solution Protects Both Application and Application Data
- Seamlessly Integrated into Any Types of Application. Application Input/Output can be encrypted transparently
- Data is Decrypted in Runtime with No Temporary Files or Footprint.
- Data Encrypted with 3DES/AES Cryptographic Algorithm. The Encryption Key is Derived from Dongle Hardware and Protected by Dongle Password
- High Performance Engine Provides Stable Performance and Great Efficiency



smart card chip based software protection dongle

ROCKEY4 SMART

ROCKEY4 SMART software protection dongle hardware is based on smart card chip. Its design of hardware provides complete protection mechanism and high level of integration, which is remarkable comparing to usual MCU chip. The smart card chip has the capability of resisting electron detection attack (SPA and DPA) and physical attack (SiShell). The smart card chip and its manufacturer have passed EAL 4+ and IT SEC certification. Its usability and stability are also regulated by ISO/IEC 10373 standard.

Derived from ROCKEY4ND dongle, the driverless technique is applied to ROCKEY4 SMART to make the device driverless in all operating systems. Users can easily use and maintain the device. Bigger memory space and more user defined algorithms are provided. The users of ROCKEY4ND can easily switch their application to ROCKEY4 SMART without extra programming. Only recompiling the code can implement the migration.

Features

- Smart Card Chip based Software Protection Dongle
- USB Non-driver Device
- Communication Datagram Fully Encrypted against Interception
- Easy to Use Enveloper Solutions to Protect Windows Applications
- License Management Solution with RSA Algorithm based Secured Remote Update Function
- Universal Unique Hardware ID. Developer Definable User ID
- Built-in Seed Code Algorithm. Hardware Implemented Timer and Random Number Generator
- 64 Modules to Control 64 Applications. 128 Algorithms to Achieve Challenge-Response Authentication
- Samples available for Delphi, Power Builder, Python, Fortran, Java, RealBasic, Oracle, SQL2000, FoxPro, VB, VBA, VC, C# and VB.NET etc.



Smart Card Technology Ensured Security
Hardware Timer and Counter Units
Onboard DES, RSA Algorithms
License Management Control Entire Software Lifecycle

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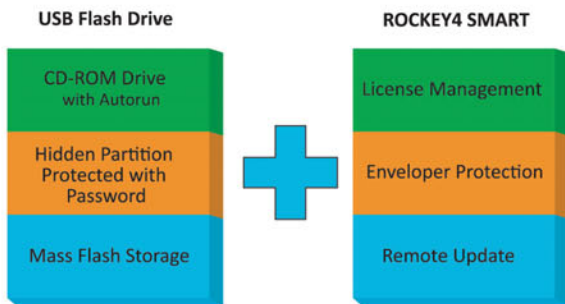
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ideal solution for software delivery and maintenance

Store ROCKEY4

SMART



*Software Auto-Install & Auto-Run
Deliver and Protect Software with Same Device
Built-in AES Data Encryption
Remote Update Solution Minimizes Maintenance Cost*

Store ROCKEY4 SMART comprises ROCKEY4 SMART software protection dongle with a Flash disk controller controlled mass capacity Flash disk. Software can be stored in the Flash disk and be protected by the dongle. Besides normal Flash disk, the device provides three special types of storage: A CDROM drive which supports auto-run feature, a hidden partition protected with user definable password and a secure partition protected by cryptographic encryption algorithm.

As the CDROM drive supports auto-run function, after plug-in, the software can be installed and started automatically. It is no need for user to use CD or download the software any more. This can greatly reduce the maintenance cost and bring convenience to end users. The software is encrypted by the dongle, which ensure the software vendor's profit is well guarded. The hidden partition is the ideal place to store zero footprint programs. The sensitive user data can be stored in secure partition.

Features

- Plug & Play, USB Non-driver Device
- Flash Disk Capacity from 512MB, 1GB, 2GB up to 8GB
- High Speed USB 2.0 Device
- Virtual CDROM drive with Auto-run Function
- Password Protected Hidden Partition
- Secure Partition Encrypted with 3DES or AES Cryptographic Algorithm
- Remote Update Solution Manage both Dongle and Flash Disk

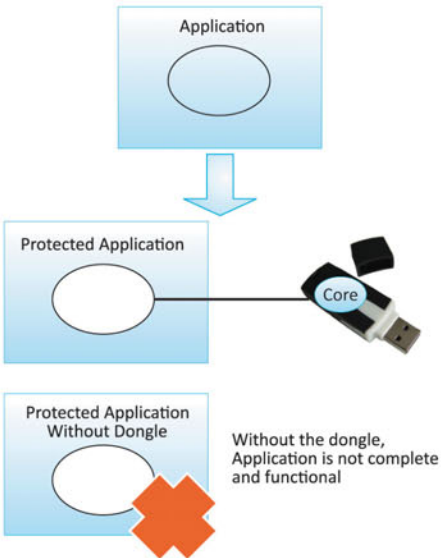


32bits smart card chip with onboard C51 program execution

ROCKEY6 SMART

ROCKEY6 SMART is a smart card chip based software protection dongle with built-in C51 virtual machine. The C51 virtual machine allows small application being executed onboard. Thus developer can move a part of the functions to the dongle. Dongle will perform as a part of the application. Without the dongle, the application is not complete. Even software is duplicated, it is lack of core functions being protected in the dongle. The function migration concept is a new generation of software protection technique, which can provide absolute protection to applications.

ROCKEY6 SMART is a 32bits smart card based dongle with high security and cross-platform software protection solution. It provides up to 70K data space for users and the chip supports floating point operation and RSA, DES encryption algorithms. It is non-driver product with flexible remote update and management solution. Developers can easily conduct product licensing, evaluating, and module-selling etc. Therefore it can prevent unauthorized software duplication and piracy outright.



Features

- High Speed Non-driver USB Device
- 32bits High Performance Smart Card Chip
- Built-in C51 Virtual Machine
- 70KB User Memory Space
- Card Operating System with Proprietary IP - FEITIAN COS
- Built-in RSA, DES Algorithms
- Built-in Counter and Runtime Clock
- Provide Integrated Management Environment
- Easy, Secure Remote Update Solution

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ROCKEY7.NET

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ROCKEY7.NET is the ideal solution to protect Microsoft .NET applications. The hardware is 32bits smart card based device with .NET virtual machine. The .NET runtime environment allows .NET smart card applet being executed onboard. Developer can program their own .NET applet and use them interactively with .NET application. The transmission is based on remoting technique, which greatly simplifies complexity of the communication design. One device can support multiple applets for different applications. The stable performance, fast efficiency and close following .NET developing orientation make ROCKEY7.NET becoming one of the best .NET smart card environments in the world.

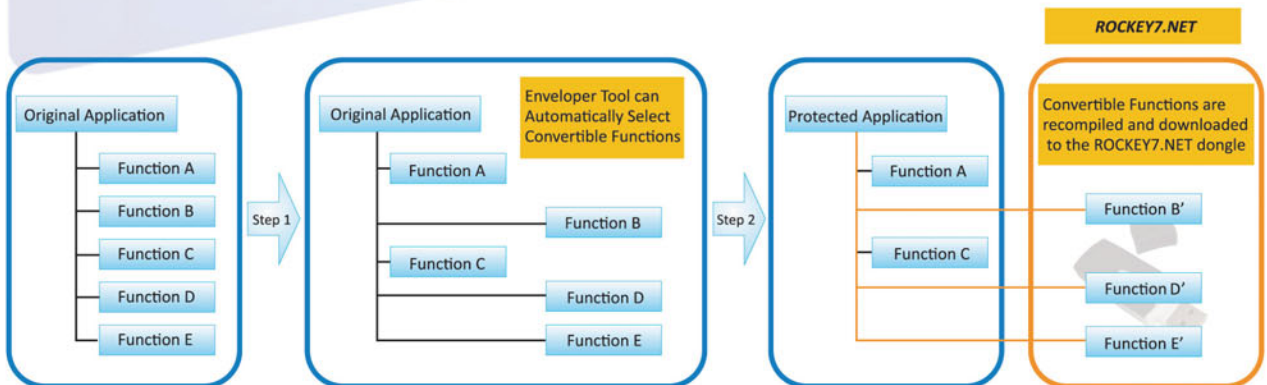


ROCKEY7.NET Enveloper Tool

Provide Great .NET Protection with Advanced .NET Smart Card Technology

Based on .NET smart card technology, the ROCKEY7.NET software enveloper tool can automatically protect .NET applications by applying revolutionary function migration software protection technique.

The enveloper will first analyze the structure of target program, evaluating functions in the application and pick out functions that can be converted to .NET smart card applets. Then, the chosen functions are automatically interpreted and compiled to .NET applets, downloaded to the dongle. The original application will be modified to work with converted .NET applets instead of calling original unprotected functions. The entire function migration process is performed with high-performance ROCKEY7.NET encryption engine.



About Feitian

Established in 1998, Feitian is dedicated of being the leading innovator of smart card and chip operating system based security technologies and applications. Combined with the latest technologies Feitian has designed and developed its DotNET Card and Java Card with best-of-breed applications, implementing into fields ranging from software protection, card payment, strong authentication, telecommunication, electronic identification and more.

Feitian cooperates closely with global leading smart card chip providers, serves valuable customers with the world's latest technologies via it expanding sales and services network internationally.

Feitian Technologies Co., Ltd
www.FTsafe.com