SecureDongle is the market’s most wanted Software License and Copyright Protection dongle that offer Maximum Security but Minimum Learning and Investment.

**Max Security**

SecureDongle is a combination of advanced smart card level hardware security together with software protection firmware which is also integrated with advanced anti-cracking algorithms and mechanisms.

**Minimum Learning**

SecureDongle SDK offers comprehensive yet user friendly tools, utilities, tutorials and API samples. Even a novice developer can master it within days.

**Minimum Investment**

SecureDongle offers the most cost effective option in the industry. So why pay more!

SecureDongle is built based on advanced microprocessor smart chip which is EAL4+ complaint and ITSEC certified. The smart chip based hardware architecture ensures complete security against risk of Dongle hardware being cloned or duplicated. In addition to hardware advantage, SecureDongle is also built with a very user friendly interfaces on its bundled firmware and utilities. Unlike many other competing products where their shortcomings are summarized as follow:

**Non-Smart Chip based**

Usually based on common low cost EEPROM where the main protection algorithms rely more on the firmware that is bundle together rather than on the hardware. This type of hardware architecture can easily be duplicated by many Dongle Duplication Experts.

**Smart Chip based**

Here are few smart chip based dongles available in the market and most of them are very complicated to integrate; a new dongle user might need to spend weeks or even months in order to be able to come up with a good protection.
SecureDongle Feature Highlights

**HID Driverless**
As HID driverless, SecureDongle requires no external device driver installation thus minimizing common technical issue arise from device driver. No driver is required. As long as a USB thumb drive is compatible with the computer, so does SecureDongle!

**Smart Chip based**
Advanced EAL4+ and ITSEC certified microprocessor smart chip that enable algorithms execution and onboard seed code generation. Microprocessor smart chip prevent hardware cloning and duplication attack.

**User-Defined Security Password**
Valid 64-bit password is required in order to gain access into SecureDongle. Developers can set and change their own security password which ensures higher privacy. Moreover, SecureDongle has built-in advanced password protection system that can prevent Brute-Force attack.

**Globally Unique Hardware ID**
32-bit pre-burn and unchangeable globally unique hardware ID provides unique reference on each individual SecureDongle.

**Module Zone**
Up to 64 Module Zones which facilitate validity flags to protect up to 64 software modules, provides easy licensing management.

**Self Definable Security Algorithms**
Up to 128 self definable security algorithms that will be executed on-board when called by protected software which will then be authenticated using the popular Challenge Response Authentication to maximize the security level of the protection.

**Data Zone**
Up to 1,000 bytes data zone which developer can use it as an external memory for some selected variables or constants accessed by the protected software as an additional security measure.

**Onboard Seed Code and Random Number Generation**
Supports on-board seed code and random number generation which developer can apply it into their protection to strengthen the security and to make the protection more complicated to crack.

**Software Enveloper**
Provide encryption program to encrypt software (executables, Flash, .Net, Foxpro) with simple protection facility

**Soft Timer**
SecureDongle is built based on innovative soft timer that requires no battery but still support protection using expiry time or date.

**Remote Update**
Supports secure remote update for developers to amend the SecureDongle settings which enables secure software license update and upgrade.

**Secure Communication**
SecureDongle is built also with advanced encryption/decryption on communication between firmware and hardware to prevent debugging and emulator attacks.

**Multi Level Access Right Management**
Supports multi level access right management to facilitate different access rights for the development team.
## SecureDongle

SecureDongle supports various possible licensing models. Below are some popular models:

- 1 SecureDongle, 1 user license
- 1 SecureDongle, 1 site license, unlimited users
- DEMO license and remote activation to final license
- 1 SecureDongle with several software modules license and remote update
- Rental and Subscription based license
- Pay per use license

### Technical Specification

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>User Password</td>
<td>8 Bytes User-Defined passwords</td>
</tr>
<tr>
<td>Hardware ID</td>
<td>32-bit Pre-Defined globally unique identifier</td>
</tr>
<tr>
<td>User ID</td>
<td>32-bit User-Defined identifier</td>
</tr>
<tr>
<td>Module Zone</td>
<td>64x16-bit non-readable memory used for arithmetic calculation and/or to assign</td>
</tr>
<tr>
<td></td>
<td>validity flags for multiple software products or modules</td>
</tr>
<tr>
<td>Zero Attributes</td>
<td>64x2-bit to indicate a Module is &quot;0&quot; or non-&quot;0&quot;</td>
</tr>
<tr>
<td>Decrement Attribute</td>
<td>64x2-bit to indicate a Module can be decreased</td>
</tr>
<tr>
<td>User Data Zone</td>
<td>1,000 bytes User-Defined memory space</td>
</tr>
<tr>
<td>User Algorithm Zone</td>
<td>128 Instruction storage for user-defined algorithms</td>
</tr>
<tr>
<td>Dimensions</td>
<td>51 x 16 x 7 mm</td>
</tr>
<tr>
<td>Current Consumption (active/idle)</td>
<td>&lt;50 mA</td>
</tr>
<tr>
<td>Min. Operating Voltage</td>
<td>5V</td>
</tr>
<tr>
<td>Hardware Platform</td>
<td>EAL4+ &amp; ITSEC certified microprocessor smart chip</td>
</tr>
<tr>
<td>Max. concurrent plugged dongles</td>
<td>16</td>
</tr>
<tr>
<td>Max. Memory Write Access</td>
<td>&gt;100,000</td>
</tr>
<tr>
<td>Connector Support</td>
<td>USB Type A</td>
</tr>
<tr>
<td>Storage Temp.</td>
<td>-40 °C ~ 85 °C</td>
</tr>
<tr>
<td>Operating Temp.</td>
<td>0 °C ~ 70 °C</td>
</tr>
<tr>
<td>Data Retention</td>
<td>10 years</td>
</tr>
</tbody>
</table>
Software Development Kit

What you need now is to get a set of SecureDongle Software Development Kit which will facilitate all your needs to start integrating SecureDongle protection with your software application.

The contents inside the Software Development Kit are listed as follow:

- One unit SecureDongle USB DEMO Dongle
- One unit software/utilities CD-ROM
- Contents inside the CD-ROM:
  - Developer Guide
  - Editor (to edit/test the Dongle’s Memory)
  - Envelopers (executables, Flash, .net, FoxPro)
  - Data Recorder (to record Dongle’s content)
  - Remote Updater (to remote update dongle’s setting)
  - API Samples (ActiveX for ASP, Javascript, VB6, VB Script; BCB5/6, Delphi 4/5/6/7/2005/2006/2007, Director, Java, PB6.5/8, VC6, V5.net, x64 etc.)
  - Steps for Beginner with API Samples
  - Device Driver for Win98 SE