Clave 2

Product Brochure

Cost-Effectiveness

In the extremely competitive software market, with its continual downward price pressure, software developers face enormous difficulties on two fronts: the cost of service and software piracy. Both of these concerns are very negative for profitability and enterprise development. Clave2 is an ideal cost-effective dongle solution to these troublesome issues.

High Reliability

It is well known that ordinary low-end dongles have inherent technical drawbacks: high fault rate and difficult deployment of encryption. The adoption of such products not only makes service and management more expensive, but also brings discredit on the brand. The stability of a dongle solution depends on three main factors:

● **On-board Chip Quality**
Clave 2 has a mature 8-bit chip developed by a world class manufacturer.

● **Integration of Components**
The improvement of overall chip integration significantly solves the common issue of high fault rate and data loss.

● **Technical Strength of Manufacturer**
Senselock has an accumulated experience of more than 10 years R&D and technical support. Product quality and service is undoubtedly guaranteed.

Security Advantages

● **AES Algorithm Protection**

128-bit AES (Advanced Encryption Standard), commonly adopted worldwide, provides coherent binding of software and the Clave 2.

● **Secure Channel**

Using the AES algorithm with the application of random scrambling technology to establish secure communication channels, Clave 2 conceals the communication data between equipment and software.

● **1920-byte, Larger Space**

Much more user data can be stored, making the protection scheme more flexible and fulfilling the requirement of protecting more software products (or modules) at the same time.

● **Rapid Execution**

Due to rapid execution times, more encryption points with higher-complexity can be set up, increasing greatly the difficulty of decryption.

Value Add-on

● **Envelope Encryption**

As an alternative to dongle integration via source code changes, dongles-based software protection can be rapidly implemented by means of the envelope encryption option of Clave 2.

● **Convenient Authentication**

The HMAC-based authentication mechanism enables end-user identity authentication without understanding and learning complex theory.

● **Handy Remote Update**

Dongles can be updated remotely without the need for callback. The updating process is reliable and secure, therefore hugely improving work efficiency and saving greatly on management and logistics costs.

● **Driverless**

Clave 2 supports the HID standard. In most circumstances, it does not require the installation of a driver. It is highly compatible and convenient to use.

Technical Specification

Working Voltage	DC 5V +/- 5%	
Max Consumption	100mW	
Working Temperature	0°C~70°C	
Data Retention	10 Years	Typical
Write Circles	10,000	Lowest
Connection Type	USB 1.0, USB 2.0	Low speed with HID
AES Encryption Time	20ms	avg.16 bytes
AES Decryption Time	26ms	avg.16 bytes
Reading Time	179ms	avg.512 bytes
Writing Time	246ms	avg.512 bytes
HMAC Calculation Time	185ms	avg.100 bytes

Operating Systems Supported

Window 98SE/ME, Windows 2000, Windows XP, Windows Vista, Windows 7/8/10, Windows Server 2003, Windows Server 2008.

Programming Languages Supported

VC6, VS2005, VS2008, Delphi6, Delphi7, Delphi2010, VB6, VB2008, C#, Java and more.

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