

Virbox EL 5 Genii

Small and powerful, it weighs only 3.6 grams, similar size with a dollar coin. The hardware is as powerful as the EL5 Acme. A Tiny dongle for Software Copyright & Intellectual Property Protection and Licensing Management Solution.



Product Description

The Virbox EL 5 Genii is the latest version & future proof of smart dongle designed for Software protection and licensing for Software vendors, it can be either work independently like traditional dongle or works with the Virbox LM to provide top level security guarantee for Software be protected. EL5 Genii integrated with top latest 32 bits ARM smart chipset and security level up to CC EAL5+ with execution speed up to 50MIPS, it contains secured RAM and flash memory which makes software dynamic be encrypted in different level via Virtual Machine Environment, Code Fragmentation Execution, Anti-Hacker Shield Technology, EL5 Genii provides Anti-Hacker Engineering, Anti-Debug Engineering, Code Fragmentation technology to software vendor to protect SW and IP respectively.

Highlight of EL 5 Genii:

- Fully new Designed cobblestone appearance dongle with high-quality PC material, high strength case, customized hanging rope, easy to take and in case of dongle lose, it weighs only 3.6 grams, similar size with a dollar coin.
- Working together with Virbox Protector (Virtual Encryption Engine & Auto compile), Virbox SDK, API, and other tools provided by Virbox LM, It will be dramatically reduce Software vendor effort and workload in Software Protection/Encryption & provide top security level protection to Software copyright & Intellectual Property.
- State of the Art COS and File Management system;
- Integrated with Virbox middleware and isolated physical hardware.
- Multi type of License stored inside, support licensing to multi-application in one EL 5 Genii
- Equipped with top level Security Algorithms;

Security Functionality available as follows:

Dedicated and Unique designed SDK for each software developer;
Software protected by top security envelope tool: Virbox Protector, VM inside and multi encryption technology integrated, with easy to use and effortless feature;

Pro Active Detection & Defense Technology to protect software in whole lifecycle: Anti-Hacker Engine(Support with Virbox License Service); Anti-Debug, Anti-Hook, Anti-Reverse Engineering, Anti-Emulation to prevent different hacker attack behavior;
Secured Communication Tunnel between dongle, API & applications which prevent cracker to create fake license
Code Fragmentation Execution & Code Transplantation to enhance software encryption level and also will save workload;
Master Lock with PIN verification function available for each developer to ensure the authorized person protection the software and issue license only

RAM and Flash memory of EL 5 Genii consist of 3 storage zone:

- Public Area (PUB): Free area for reading and writing data;
 - Read Only Memory (ROM): Read only area which reserved for Software developer, can store such as digital signature, License file, Company logo. etc.;
 - Read and Write Memory (RAW): Reserved for developer to define & writing data;
- Every area size can be set up to 64Kb.

EL 5 Genii supports multi license mode & license renewal/update.

License Modes Support:

- | | |
|------------------------------|-------------------------------|
| • Perpetual Licensing | • Feature on Demand Licensing |
| • Trial-Based Licensing | • Time-Based Licensing |
| • Subscription Licensing | • Usage/Consumption Licensing |
| • Network Floating Licensing | |

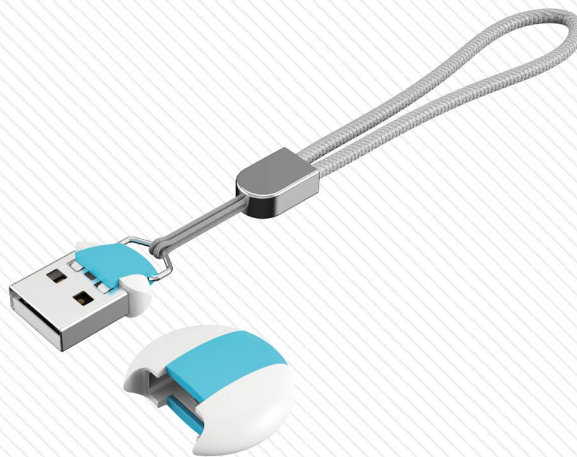


EL5 Genii can be used standalone or can be used to connect to Virbox LM (Virbox Developer Center) to provide advanced protection and license functionality to software vendor.

EL5 Genii is top level security tool to protect your software & IP and is widely used and well proofed to protect software copyright in different industry.

Technical Specifications

	EL5 Genii	ULT
Smart Chipset	ARM SC300, 32 bits Processor	ARM SC300
Execution Speeds	50MIPS/10DMIPS	50MIPS/10DMIPS
I/O	360Kb/s	360Kb/s
RAM	10Kb/s	10Kb/s
Flash Memory	256Kb	512Kb
OS	Sense COS	Sense COS
No. of Licenses stored	3000	6000(optional)
Writing cycles	16.5M	16.5M
Data retention	10 Years (25 °C)	10 Years (25 °C)
Interface	USB 2.0 high speed rate	USB 2.0 high speed rate
Security Level	CC EAL5+	CC EAL5+
Encryption algorithms	RSA 1024/2048 ECC 192/256/384 AES 128/192/256 DES/TDES SHA 1/256	RSA 1024/2048 ECC 192/256/384 AES 128/192/256 DES/TDES SHA 1/256
OS Supported	Windows XP or above Linux, Mac	Windows XP or above Linux
Program Language	C/C++, Delphi, C#, Java, VB, .net, ..., etc.	C/C++, Delphi, C#, Java, VB, VB.net
Case Material	High quality PC	High quality PC
Power Consumption	Max. 100 mw	Max. 100 mw
Power Supply	4.5V~5.5V	4.5V~5.5V
Max Power Output	<20V	<20V
Working temperature	-25 °C~85 °C	-25 °C~85 °C
Store Temperature	-40 °C~125 °C	-40 °C~125 °C



Certificates

The EL 5 Genii is tested and compliant with following Standards
 CE, Test Report No.: SHEM180700575801, Date of issued: 2018-08-03;
 FCC, Test Report No.: SHEM180700575601, Date of issued: 2018-08-03
 RoHS, Verification Report No: TSNEC1600795701, Date of issued: 2016-06-21
 WEEE, Report No., TSNEC1600796101; Date of issued: 2016-06-16
 SVHC, Test Report No.: No. TSNEC1801256802; Date of issued: 2018-Jul-12

