

KEYLOK® Fortress

Building a Secure Software Environment

Fortress offers software developers the ability to develop more secure enhancements for their customers in a variety of environments. Fortress is driverless and works in plug & play mode, meaning no driver installs necessary, ever! End users can begin using Fortress virtually out of the box. Fortress gives the capability to port up to 10,000 lines of your executable code to be safely locked in the smart card portion of the dongle. The combination of code porting and the tamper proof hardware provides the most secure solution for protecting our customer's valuable software.

KEYLOK Fortress offers an enhanced feature set:

- Driverless installation for rapid, more cost-effective deployment to end users
- Code Vault - Executable code on the dongle
- Tamper-resistant, smart card design and versatility
- Expanded memory with read/write capability
- Multi-level security

Functions include:

5,000 Bytes programmable memory (upgradeable to 21,000 and 51,000 bytes)

Executable code on dongle

Memory read

Memory write

Expiration date

Real time clock

Network control

Remote update

Application

Anti-debugger

Counter

Smart card

Physically tamper proof

Driverless

Fortress LS & RS



(50x18x8mm)



(17x12x4mm)

KEYLOK® Fortress Real Time Clock

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KEYLOK Fortress Real Time Clock offers:

- Onboard real-time clock provides a tamper proof expiration date license management solution
- Driverless installation for rapid, more cost-effective deployment to end users
- Code Vault - Executable code on the dongle
- Tamper-resistant, smart card design and versatility
- Expanded memory with read/write capability
- Multi-level security

Functions include:

5,000 Bytes programmable memory (upgradeable to 21,000 and 51,000 bytes)

Executable code on dongle

Memory read

Memory write

Expiration date

Real time clock

Network control

Remote update

Application

Anti-debugger

Counter

Smart card

Physically tamper proof

Driverless

Fortress Real Time Clock



(50x18x8mm)

KEYLOK® Fortress Flash Drive

Fortress Flash Drive combines all of the advanced software protection features of the KEYLOK Fortress keys with flash drive storage for yours or your end-user's use. The software protection features of the key work independently from the flash storage space so you have ultimate flexibility on how you want to package and distribute your software.

KEYLOK Fortress Flash Drive offers an enhanced feature set:

- Store your application in the flash memory portion of key!
- Driverless installation for rapid, more cost-effective deployment to end users
- Store executable code on the key (up to 10,000 lines)
- Tamper-resistant, smart card design and versatility
- Expanded memory with read/write capability
- Multi-level security
- Repartitioned storage available for end-users

KEYLOK's SOLUTION

The KEYLOK Fortress Flash Drive offers application providers the ability to develop more secure enhancements for their customers in a variety of environments. End users can begin using Fortress virtually out of the box!

Functions include:

Available in 1, 2, 4, 8 and 16GB sizes

5,000 Bytes programmable memory (upgradeable to 21,000 and 51,000 bytes)

Code Vault enables storage of executable code on key, up to 10,000 lines of code

Memory read/write

Expiration date

Network control

Remote update

Anti-debugger

Counter

Smart card - physically tamper proof

Driverless installation

Fortress Flash Drive



(50x18x8mm)

KEYLOK Fortress LS, RS, and RTC Technical Specifications

Supported Operating Systems

- Windows XP (32/64 bit), Vista (32/64 bit), Windows 7 (32/64 bit), Windows Server 2003 (32/64 bit), Windows Server 2008 & R2 (32/64 bit)
- NetBIOS-based and TCP/IP networks

Supported Development Tools

- Microsoft Visual Studio (Visual C/C++)
- Microsoft Visual Basic
- VB.Net
- C# (C-Sharp)
- Microsoft Access
- Delphi
- Java
- Microsoft Excel
- Borland C/C++

KEYLOK supports over 50 development tools. For a complete list of these supported tools, please see our website at www.keylok.com

Specifications

Environment	
Storage Temperature	-10° F to 175°F (-23° C to 80° C)
Operating Temperature	32° F to 157° F (+0° C to +70° C)
Dimensions / Connectors	
Fortress LS & RTC USB	50x18x8mm Standard USB port
Fortress RS USB	17x12x4mm Standard USB port
Memory	
Type	EEPROM
Data retention	At least 10 years
Programming RAM	5,120 bytes = 2560 memory locations 18,944 bytes = 9472 memory locations 50,560 bytes = 25280 memory locations 1 Million Write cycles per location Unlimited Read cycles
Security	
Encryption	Proprietary Encryption Algorithms
Authentication Password	2 ⁹⁶ possibilities
Read Password	2 ¹²⁸ possibilities
Write Password	2 ¹⁷⁶ possibilities
SmartCard	ISO/IEC 15408 Security Evaluation Level EAL 5+ Highest level globally
Power	No more than 15 milliamps

KEYLOK Fortress Flash Drive Technical Specifications

Supported Operating Systems

- Windows XP (32/64 bit), Vista (32/64 bit), Windows 7 (32/64 bit), Windows Server 2003 (32/64 bit), Windows Server 2008 & R2 (32/64 bit), NetBIOS-based and TCP/IP networks, Linux (32/64 bit), Mac OSX (32/64 bit)

Supported Development Tools

- Microsoft Visual Studio (Visual C/C++)
- Microsoft Visual Basic
- VB.Net
- C# (C-Sharp)
- Microsoft Access
- Delphi
- Java
- Microsoft Excel
- Borland C/C++

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Specifications

Environment	
Storage Temperature	-10° F to 175°F (-55° C to 150° C)
Operating Temperature	32° F to 157° F (+0° C to +70° C)
Dimensions / Connectors	
Fortress Flash Drive USB	50x18x8mm Standard USB 2.0, High speed
Memory	
Type	Mass storage device (driverless) MLC,SLC / Erase Cycle: MLC>10,000;SLC>100,000
Data retention	At least 10 years
Programming RAM	5,120 bytes = 2560 memory locations 18,944 bytes = 9472 memory locations 50,560 bytes = 25280 memory locations Capacity: 128MB~16GB 1 Million Write cycles per location Unlimited Read cycles
Speed	Up to 480Mbps
Security	
Encryption	Proprietary Encryption Algorithms
Authentication Password	2 ⁹⁶ possibilities
Read Password	2 ¹²⁸ possibilities
Write Password	2 ¹⁷⁶ possibilities
SmartCard	ISO/IEC 15408 Security Evaluation Level EAL 5+ Highest level globally
Power	Voltage: 3.0 – 5.5v Max Current: 400mA