StorePass PKI USB Token

A PKI product with an onboard Flash drive

OVERVIEW

StorePass PKI USB Token by FEITIAN is a hybrid device which combines Flash memory with Public Token Infrastructure technology. The onboard smart card provides strong protection to user credentials as well as a flash drive to carry regular programs and files. It is centered on high security, usability and convenience, making it a smart choice for industrious enterprises or financial institutions. The flash memory is segmented into two distinct parts; a read-only CD-ROM drive to store and protect application programs, and the normal flash drive which can be used to store user documents and data. The system interacts with the host computer through a USB plug to provide the secure storage of private information or programs and certificate based digital signing of documents, data, and transactions all in one.

An Adaptable & Light Weight Solution

StorePass PKI USB Token is a "Zero Footprint" solution leaving no residual trace or history on the host computer once the browser is closed. Applications can be stored on the built-in write protected CR-ROM area in which content sored cannot be modified or erased. Related data files can be stored and encrypted to the normal flash area. The CD-ROM area can store the application programs that operate the PKI smart card while processing all documents in the normal Flash area. The user never has to worry about applications stored on the token being infected by a virus or injected with a Trojan program.

Make Store Pass Your Pass

The large Feitian team of experienced research and development professionals can easily customize each solution to fit unique task specific requirements with fully customizable casing, middleware and CD-ROM content and more. For large scale deployments StorePass PKI USB Token provides an attractive enterprise solution on account of its best of breed security, portability, and storage capabilities. Customized browsers can be stored on the virtual CD-ROM and used to access sensitive online sites, for instance online banking. The secure operating system of the token runs completely autonomous from the host computer and its slew of potential threats like Trojan programs. This is known as the host operating system independence feature; it establishes a secure consistent working environment which can be generated and regenerated on any computer from any location.

Certified ePass PKI Ticket to Ride

The ePass2003 edition of StorePass PKI USB Token (i.e. StorePass2003) features Microsoft MiniDriver functionality. This convenient product offering enables users running Windows 7 operating system to seamlessly install their middleware through Windows Update. The MiniDriver design works with Windows built-in Microsoft Base Smart Card Provider to offer native support for all Microsoft CAPI and CNG up-to-date solutions, such as Windows Smart Card Log-on and RDP Log-on. Once this process is completed users have access to all the PKI functions of the Token such as the ability to acquire Windows certificates and assured digital signing capabilities in addition to data encryption. The construction, design, and manufacturing process of software and hardware components in ePass PKI USB Token has been certified as compliant with the most rigorous of international standards including FIPS 140-2 Level 2 and Common Criteria EAL 5+.

BENEFITS

- **Don't get stuck on middleware**

The device features self-contained middleware for Windows, Linux and Mac operating systems; freeing end users from any further installations. The onboard smart card can be controlled by loading a PKCS#11 library which enables the creation of SSL based VPN connections to internal company networks for the remote processing of documents, data sheets, communications etc.

- **Enjoy the convenience of large scale onboard Flash memory**

StorePass PKI USB Token provides a PKI smart card as well as a powerful storage memory in which all the necessary documents, data files and programs required to operate the key can be self-contained. Users can access the PKI process data directly and do not need to carry any extra disk or download supplementary material from internet.

- **Maintain the integrity of stored data with the write protected virtual CD-ROM**

Each key is equipped with a virtual onboard write protected CD-ROM area in which content that is sored cannot be modified or erased. The CD-ROM area can store the application programs that operate the PKI smart card and process the documents in the normal Flash area. The user does not have to worry about the applications stored there being affected by a virus or injected with a Trojan program.

- **Designed with a practical deployment procedure for people on the go**

StorePass PKI USB Token is a 'Plug-&-Play' device. Users can directly insert the USB interface of the key into Windows, Linux and MAC computer system and begin use immediately. The compact size and combination of PKI smart card, smart card reader, onboard virtual CD-ROM drive and normal flash area delivers an all in one device security solution for maximum security and maximum convenience.

- **Featuring a broad based support structure and applicable use**

Plug-and-play functionality established through the convenient MiniDriver feature based on Windows Update eliminates the need for additional middleware investment for users of the Windows 7 operating system. The USB Token

interface inserts seamlessly into all USB ports eliminating the need for extra hardware driver installation. StorePass2003 PKI USB Token supports PKI compliant applications from leading established vendors including Microsoft WHQL, PCSC-Lite, Entrust, Checkpoint and VeriSign to name just a few.

FEATURES

- Onboard mass Flash memory supports auto-run and system boot-up
  - Onboard 1GB, 2GB up to 8GB flash memory to store middleware
  - Device registers a virtual CD-ROM to host computer, supporting Auto-run and auto-installation
  - Device supports computer system boot-up with built-in CD-ROM
  - Plug & Play and non-driver device under Windows, Linux and MAC
- Built-in high-performance secure smart card chip
  - Smart card chip certified by Common Criteria EAL 5+
  - On board RSA, AES, DES/3DES, SHA-1, SHA-256 algorithms approved by NIST FIPS CAVP
  - Hardware random number generator
  - 64KB EEPROM memory to store private keys, multiple certificates and sensitive data
- FEITIAN Card Operating System with proprietary IP
  - Design according to FIPS 140-2 level 3 standard, FIPS 140-2 level 2 certified (Under evaluation)
  - Secure messaging ensures confidentiality between the key and the application
  - Support X.509 v3 standard certificate. Support storing multiple certificate on one device
  - Onboard RSA2048 key pair generation, signature and encryption
  - 64 bit universal unique hardware serial number
- Reliable middleware supports multiple operating systems
  - Supports Windows, Linux and Mac OS
  - Compliant with Windows mini driver standard, work with Microsoft Base Smart Card CSP, supports Microsoft smart card enrollment for windows smart card user and smart card logon
  - Support PKCS #11 standard API, Microsoft CryptoAPI and Microsoft CryptoAPI : Next Generation (CNG)
  - Work with PKCS#11 & CSP compliant software like Netscape, Mozilla, Internet Explorer and Outlook
- Easy integration with various PKI application
  - Ideal device to carry digital certificate and work with all certificate related applications
  - Highly security ensured device for computer and network sign-on
  - Easy-to-use web authentication, Plug & Play under Windows systems
 - Support document, email and transaction signature and encryption

SPECIFICATION

Product Specification

Supported Operating System	32bit and 64bit Windows XP SP3, Server2003 , Vista, Server2008, Seven

	32bit and 64bit Linux MAC OS X
Middleware	Microsoft Windows MiniDriver Windows middleware for Windows CSP Direct-called library for PKCS#11 under Windows, Linux and MAC
Standards	X.509 v3 Certificate Storage, SSL v3, IPSec, ISO 7816 1-4 8 9 12, CCID
Cryptographic Algorithms	RSA 512/1024/RSA 2048 bit ECDSA 192/256 bit DES/3DES AES 128/192/256 bit SHA-1 / SHA-256
Cryptographic Functions	Onboard key pair generation Onboard digital signature and verification Onboard data encryption and decryption
Cryptographic APIs	Microsoft Crypto API (CAPI), Cryptography API: Next Generation (CNG) Microsoft Smart Card MiniDriver PKCS#11 PC/SC
Flash Memory	1GB, 2GB up to 8GB
Flash Endurance	At least 20,000 write/erase cycles
Processor	16 bit smart card chip (Common Criteria EAL 5+ certified)
Memory Space	64KB (EEPROM)
Endurance	At least 500,000 write/erase cycles
Data Retention	More than 10 years
Connectivity	USB 2.0 full speed, Connector type A
Interface	ISO 7816 CCID
Power Consumption	Less than 250mW
Operating Temperature	0°C ~ 70°C (32°F ~ 158°F)
Storage Temperature	-20°C ~ 85°C (-4°F ~ 185°F)
Humidity	0% ~ 100% without condensation

Casing Specification
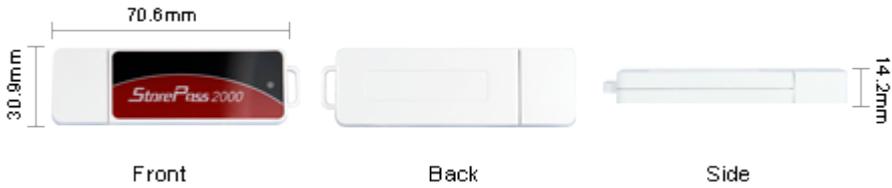
Front   Back   Side

Dimension	75mm x 23mm x 11mm
Weight	30g
Colour	White
Material	ABS
Label	Inside front side socket Size: 51mm x 21mm
Serial Number	Ink printed at back side of the case or laser printed on USB connector
Customization	Label logo * *Require minimum purchase volume*

Front   Back   Side

Dimension	64.8mm x 21.5mm x 12.1mm
Weight	15g
Colour	Red and white
Material	ABS
Label	Inside front side socket Size: 25mm x 11mm
Serial Number	Ink printed at back side of the case or laser printed on USB connector
Customization	Alternative casing colour (black and white) Label logo * *Require minimum purchase volume*

Certification & Compliance

- FIPS 140-2 Level 2 (under evaluation)
- Common Criteria EAL 5+ (chip level)
- Microsoft WHQL
- Linux PCSC-Lite

- RoHS
- Check Point
- Entrust Ready
- USB
- CE
- FCC