PKI Card
–PKI Based Smart Card for Versatile Applications

FEITIAN
WE BUILD SECURITY

Overview

ePass PKI series smart cards are designed to store user's personal identity information, digital certificates, and private keys, working together with FEITIAN's PKI manager to provide a comprehensive and scalable security solution that meets customers' needs for strong authentication, encryption and digital signatures.

ePass security PKI Card is easy to be integrated into different authentication platforms which offer tailored solution appropriate for business, organizations, financial institutions, healthcare, governments and retail industries by providing e-Payment, e-Passport, e-ID, e-Health, e-Ticket with enhanced security assurance.

Based on all standard smart card encapsulations, FEITIAN's PKI Card can be adopted to achieve maximized multi-functional card applications, such as a banking card with a magnetic strip, a personal ID card with a printed photo and a payment card sealed with a contactless module.

Benefits

- Secure storage of multiple certificates, keys and sensitive data.

- High security level: Onboard asymmetric calculation, private keys can never be retrieved.

- Easy integration with versatile PKI applications: standard MS CAPI and PKCS#11 APIs and samples are provided.

- Multiple options of middleware and tools: Feitian's middleware/tools and OpenSC middleware/tools are optional for users.

- Customized services like logo printing, color customization and middleware customization are available.

Solutions & Applications

- **E-government Solution:** citizen information, e-Passport, driver license, e-Tax, healthcare and more.

- **Online Financial Solution:** authentication and transaction signing for e- banking, e-commerce, e-payment and more.

- **Secure Access Control:** smart card logon, strong VPN, secure network access for extranet/intranet.

- **Digital Signing:** B2B, B2C transaction signing, email signing, document signing, e-Filling and more.

- **Data Encryption and Decryption:** file and disk encryption, communication data encryption.

Features

- Built-in high performance smart card chip

- Onboard DES, 3DES, MD5, SHA-1, RSA 1024/2048

- Support AES, SHA-2 and more algorithms

- Onboard RSA key pair generation, private key can never be retrieved

- Onboard digital signature generation and verification

- Compliant with ISO/IEC 7816-1, 2, 3, 4, 8, 9

- User memory up to 64KB and support multiple key pairs storage

- Standard Microsoft CAPI and PKCS#11 support

- PKCS#15 compliant, seamlessly integration with OpenSC applications

Key Applications

Secure Access Control	Check point, Citrix,Entrust, OpenVPN, Windows smart card logon, Linux PAM...
	Internet Explorer, FireFox, Safari, Opera, Chrome...
Signing and Encryption	Adobe PDF, Microsoft Word, OpenOffice, OpenSignature, Sinadura, Verisign, Entrust, PGP, TrueCrypt, Windows EFS, Outlook, Thunderbird....

Technical Specification

Supported OS	Windows 2000/XP/2003/2008/Vista/Windows 7 Linux Mac
Standards	Microsoft CAPI, PKCS#11, PKCS#15 Model available for OpenSC X.509 v3 certificate storage, ISO7816 compliant, T0/T1
Compliance	Compliant with CE and FCC standards RoHS
User Memory Space	64KB
Supported Algorithms	RSA1024/2048, DES, 3DES, AES and SHA-1,SHA-2
Card Operating Voltage	3V/5V
Data Retention	At least 10 years
Memory Rewrites	At least 500,000

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