SchlumbergerSema

the smart card for
e-transactions and trusted services

Cryptoflex

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Secure, portable storage for secret keys and certificates

- Portable digital credential management
- Integrates into Public Key Infrastructures
- A complete product range
- Also available with USB communication interface (Cryptoflex e-gate*)

The Information Age brings both promise and risk. Widespread access to a wealth of useful information has made security a major concern. As the Internet grows to bring more and more of the world online – governments, multinational corporations, even private homes – the true benefits of information access can only be gained when information security and confidentiality are guaranteed.

Portable security

SchlumbergerSema has created Cryptoflex*, the ideal solution for smart card-based information security over the network. Cryptoflex makes it easy to carry your digital identity with you, ready to use with any secure system that requires authentication, digital signature and data ciphering. The card enables secure data storage such as remote dial-in numbers, network addresses, and account information.

Cryptographic functions

Cryptoflex is a credit-card sized computer with a crypto-processor dedicated to security enhancement.

Cryptoflex implements security industry functions based on public key cryptography directly onto the card, therefore eliminating the risk of sending secret unprotected data across a network. Keys and certificates for a variety of applications are stored in a single secure location, isolated from computer disks, which can fail or be damaged and are susceptible to security breaches and theft.

The card provides maximum security and flexibility of system integration thanks to administrative functions such as secure key loading, on-card key generation and ciphering of imported/exported data.

Varied field of use

Cryptoflex is the right solution for corporate information security needs, including secure e-mail, access to proprietary and confidential web sites, or single sign-on to intranets. Cryptoflex can be integrated into an existing government or corporate badge system to add functions such as network security, physical access, and company management applications.

SchlumbergerSema offers a complete range of security solutions, products and consulting services to boost your smart card projects.

This product is e-gate ready
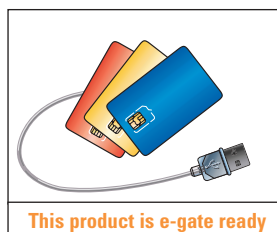
General Features
- 8, 16 and 32 Kbytes EEPROM
- Cryptographic Coprocessor
- ISO 7816 based
- ISO T = 0 transmission protocol

Cryptographic Services
- RSA key generation (key length 512, 768, 1024 and 2048 bits)
- RSA signature calculation (key length 512, 768, 1024 and 2048 bits)
- SHA-1 hashing
- Encrypted data loading (DES or Triple DES)
- Random Generation
- DES and Triple DES MAC
- DES Key Generation (56, 112 bits key length)
- DES and Triple DES Chain Block Cipher (56 and 112 bits key length)

Readerless technology offered with e-gate smart cards
- USB v1.1 compliant
- 16 or 32 Kbytes EEPROM

Additional Features
- FIPS 140-1 level 2 certification
- Hybrid Offer (on card body with Mifare® or HID SmartProx® contactless technology) for combined logical and physical access
- EMV compliant

Supported Applications and Platforms
- Integrates with PC/SC
- Integrates with PKSC#11
- Entrust Ready
- Plug&Play with Windows™2000 and Windows™XP
- SchlumbergerSema SDK

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