



the USB smart card with flash memory

CryptoCombo
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CryptoCombo

One model for every need

CryptoCombo is an "all-in-one" device in USB key format that combines the following functionalities:

- Cryptographic Smart Card**
- Smart Card reader**
- USB flash memory**

CryptoCombo exploits the Smart Card technology for safely storing the User's credentials (personal profiles, digital certificates); the on-board flash memory offers enough space for data and application transfer. The private key used for the signature of documents is safely and secretly preserved inside the cryptographic chip, thus protecting its access by means of a customizable PIN.

CryptoCombo avails itself of security systems that prevent exporting and copying the private key outside the device it has been generated in. For greater security, access to the flash memory where data are stored can be protected with a password.

The flash memory of the device is managed as a disc unit that can be further subdivided into 8 partitions, choosing from:

- **Standard Mass Storage**, where data can be stored and visualized;
- **CD-ROM**, with Autorun function;
- **Encrypted Mass Storage**, with AES 256 bit;
- **Write-protected Mass Storage**, that is a read-only partition;
- **Read- and Write-Protected Mass Storage**

Only one standard mass storage partition is supported on Linux.

5 Memory on board: 32 KB • Cryptography: RSA 1024 bit • cryptographic chip: ATMEL AT90SC3232C • Mask: Algorithmic Research.

2048 Memory on board: 64 KB • Cryptography: RSA 2048 bit • cryptographic chip: ATMEL AT90SC6464C • Mask: Algorithmic Research. • Security: Common Criteria EAL 1+ certification of cryptographic chip.

ITSEC-I Memory on board: 32 KB • Cryptography: RSA 1024 bit • cryptographic chip: Infineon SLE66CX322P • Mask: Siemens CardOS M4.01 (a) • Security: ITSEC E4 high certification of cryptographic chip and mask.

ITSEC-P Memory on board: 32 KB • Cryptography: RSA 1024 bit • cryptographic chip: Philips Semiconductors P8WE5032 • Mask: G&D StarCOS SPK 2.3 • Linux support is available too • Security: ITSEC E4 high certification of cryptographic chip and mask.

FIPS Memory on board: 32 KB • Cryptography: RSA 1024 bit • cryptographic chip: Philips Semiconductors P8WE5032 • Mask: G&D StarCOS SPK 2.4 • Linux support is available too • Security: ITSEC E4 high certification of the chip and FIPS 140-2 level 2 of the mask.

Supported applications

- Digital certificate storage
- Digital Signature
- Secure mail
- File and disk cryptography
- Microsoft XP and Windows 2000 Smart Card and Network Logon
- Strong Authentication: SSL3, VPN, Wireless, RASDialup/RADIUS
- Interoperability with PKI solutions Entrust, Baltimore, RSA, Microsoft, Cryptomathic, Novell, Thawte, VeriSign, Bull/Evidian, Computer Associates and others
- Application integration with PKCS#11 and MS CAPI
- Flash memory storage for data and application portability

Common features

- Memory: 32-64KB EEPROM in cryptographic chip + up to 512MB flash memory
- Standard: ISO 7816 3-4, PKCS#11 v2.11, PC/SC, Microsoft CAPI, S/MIME, IPSec/IKE, X.509 v3
- Security: SO and user PIN, on board signature and generation of cryptographic keys
- Operating systems: Microsoft Windows 98/ME/2000/XP and Linux (check versions)
- Client applications: Adobe Acrobat, VPN clients, Microsoft Internet Explorer, Microsoft Outlook, Lotus Notes 6.0x, besides all applications that employ the supported standards.

Technical specifications

- USB Spec: 2.0 Full Speed
- LED: green (power on/connected), orange or red (access to data);
- Transfer rate of cryptographic component: up to 64 Kbps
- Flash memory data reading speed: 880 KB/s
- Flash memory data writing speed: 680 KB/s



FCC ID: TFC AAB



Customization options are available as for the shell colour and any inscriptions and matchable accessories, from the key ring to the neck strap, from the USB connector cap to customized document printing.