

# cryptokey

Hold your digital identity on your fingertips



## cryptokey for:

- PKI infrastructures
- Network access control
- Digital signature
- Home Banking
- Home Shopping
- E-commerce
- Software Licensing
- Loyalty Programs
- Online gaming

**cryptokey is a practical device able to safely carry users digital identities and to be easily integrated into pre-existing PKI infrastructures**

The fast growth of electronic frauds and data theft is making security a major issue in the ICT sector. The safest solution is currently represented by the adoption of PKI infrastructures and therefore the digital certificates are used as credentials.

Thanks to the capability of computing asymmetric algorithms the cryptokey generates the certificates within its secure element. Such certificates can be therefore used as credentials over PKI infrastructures for the users "2 factors" authentication process.

The 2 factors authentication is considered to be one of the safest authentication methods by computing literature, it takes place by owning something (the cryptokey token) and knowing a secret (secure element's PIN number).

cryptokey is compliant with the most common operating systems and its adherence to CCID and PC/SC standards allows an easy and full integration without any need of installing drivers.

The compact size makes this device an extremely portable tool occupying just one standard USB port without obstructing the simultaneous use with other devices.

With appropriate applications the cryptokey becomes an excellent signing tool ensuring high-end performances and great reliability.

## System requirements

- Win98
- Win ME
- Win NT 4.0
- Win 2000
- Win 2003 (32 & 64)
- Win 2003 R2 (32 & 64)
- Win XP (32 & 64)
- Win Vista (32 & 64)
- Win 2008 (32 & 64)
- Win 7 (32 & 64)
- Win 8/8.1 (32 & 64)
- Mac OS 10.X
- Linux Kernel 2.6 and higher

## Information & Contacts

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BIT4ID mission is the development and the diffusion of easy-to-use and secure technologies for the digital identity management. Information and technical details reported are not binding for Bit4Id and may be changed without notice. Photos for illustrative purposes only, actual items may differ from pictures.

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## Main features

- Supports Class A, B and C (1,8V, 3V, 5V) chip.
- Communication protocols T = 0 and T = 1
- Compatible ISO specifications 7816-1,2,3,4
- Supports PPS (Protocol and Parameter Selection)
- Short circuit protection
- Speed up to 412,903 bps
- Compatibility and Certificates: EN 60950/IEC 60950, ISO-7816, PC / SC, CE, FCC, RoHS, VCCI, CCID, Microsoft WHQL, EMV
- Cryptographic Chip Certification: Common Criteria EAL5 +, FIPS 140-2 level 3
- Standards and certifications: Common Criteria EAL4 + (CWA14169 SSCD Type 3)

## Technical features

- Communication interface: USB full speed
- Dimensions: 80 x 23 x 10 mm
- Weight: 13 g
- Colour: Black
- Finishing: Soft touch
- Power supply: 5V DC / 50mA max
- LED: Double Led indicating the activity status
- Temperature: 0°C-70°C (32°F-158°F)
- Humidity: 0-100% without condensation
- Data retention: 10 years minimum
- Card insertion cycles: 500.000 cycles minimum
- API & standards supported: PKCS#11 v2.11, Microsoft CAPI, TokenD, PC/SC, X.509 v3 certificate storage, SSL v3, IPsec
- Memory: 64KB EEPROM memory
- Cryptographic algorithms: AES-128, DES, 3DES, RSA
- Hashing: SHA-1; SHA-256
- RSA key length: 1024 bits / 2048 bits
- Standards and certifications: Microsoft WHQL: 2000, 2003, XP, Vista, 2008, 2008 R2, 7EN 60950/IEC 60950, EMV 2000 Level 1, PC/SC, CCID, C
- Operating systems (32 or 64 bit): Win 2000, Win XP, Win Vista, Win 7, Win 8/8.1 Win Server 2003, Win Server 2008, Mac OS X, Linux

Integrators/resellers packaging product code: CRYK-A	
Havana cardboard box	240 units
Clear plastic tray holding open devices	20 pieces per tray cm X 12 trays
Size	55 cm X27.5 cm X19
Gross weight	5.3 kg
Personalization	
Logo	Yes – On large volumes
Predominant colour	Yes – On large volumes