

id-:ne™ COSMO

ID-One Cosmo is the ideal solution for most identity markets: national ID cards, driving licences, vehicle registration cards, health cards or employee ID cards.



The ID-One Cosmo range is based on Oberthur Technologies' latest open platform offer. Implementing Java Card™ and GlobalPlatform industry standards and featuring on-board applications, it has been specifically designed for identity and government market needs.

Since its creation, ten years ago, the ID-One Cosmo product range has been developed to follow the evolution of Java™ technology in order to match issuers' business and security requirements.

Already, more than 50 million ID-One Cosmo Java Card operating systems have been contracted around the world. It is the natural choice for government, health and employee ID cards.

- ✓ Complying with latest Java Card™ and GlobalPlatform specifications
- ✓ Open, secure, interoperable and standard environment for multi-application smart cards
- ✓ Full range of memory from 16kb to 128kb free to load applications
- ✓ All interfaces of communication available: contact, contactless, dual
- ✓ Available on 2 different silicon sources to ensure continuity of service in the delivery
- ✓ Major certifications: FIPS140-2 Level 3 and CC EAL5+ (open platform)
- ✓ The most recent cryptographic mechanisms implemented, such as 3DES, AES, RSA, Elliptic curves
- ✓ Embedded biometric fingerprint On-Card Comparison - Minex II evaluated
- ✓ Development Kit available to design customized applications

Major certifications

The highest security standards and certificates available:

- Common Criteria EAL5+ (open platform)
- FIPS 140-2 level 3 certified cards
- FIPS 201 compliant for the PIV cards



+ The ID-One Cosmo V7 Open platform has been successfully certified CC EAL5+ including application loading mechanisms. As a result even if a non evaluated applet is loaded the security is not compromised and certificate remains valid. The certification of an external application is also strongly simplified by this existing certificate.



Extended Java applications portfolio

Oberthur Technologies offers several applications suitable for identity market such as:

- European Citizen Card – IAS
- Personal Identity Verification – PIV
- PKI application : Authentic
- ICAO-LDS Electronic passport application

Development Kit

A development kit is available and assists in the design, development and testing of applications running on the card. It includes an on-card debugger to help developers fine-tune applications while they are running in their target environment.



Embedded biometric fingerprint On-Card Comparison

ID-One Cosmo implements a biometric On-Card Comparison algorithm for storing and verifying digital fingerprints inside the card. To ensure powerful and reinforced security, the matching algorithm is embedded inside the card, providing quick verification and security.



Based on the ISO19794-2 Fingerprint minutiae template, the accuracy, speed of verification and interoperability have been successfully demonstrated by the internationally recognized MINEX II evaluation conducted by the NIST (National Institute of Standards and Technology).

<http://fingerprint.nist.gov/minexII>

At present, the biometric On-Card Comparison solution is a major improvement in smart card market since the security benefits are enough to answer to the most secure applications needs.

ID-One Cosmo V7 main features



Cosmo V7 Range		Contact	Dual	Contactless		
Entry	16-20 KB					
Basic	32-40 KB	✓	✓	✓	✓	✓
Standard	64-80 KB					
Large	128-144 KB					



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