

id-ne™ Prime

ID CARDS

ID-One™ Prime is Oberthur Technologies' entry level ID market-dedicated smart card range. It offers the best possible performances within a controlled budget. ID-One Prime 4 is the preferred solution for secure data storage applications and extremely large scale deployments.



With Oberthur Technologies' ID-One™ Prime products, the most mature smart card technologies are now available for a wider range of identification projects. Extremely flexible and highly secured, ID-One Prime delivers optimum performance within a controlled budget:

- Native implementation of ISO 7816 files types and commands
- T=0 protocol
- 3 DES symmetric cryptographic algorithm for security
- Data authentication and encipherment
- Hierarchical file system & file structure types as per ISO 7816

The 4k contact version of ID-One Prime has been successfully certified by the National Informatics Centre (NIC) of the Indian Ministry of Communication & Information Technology (SCOSTA compliant). More than xx million cards based on SCOSTA specifications are already deployed in India as driving licences.

The ID-One Prime chip is tailored for the tight evaluation procedures required for finance smart cards and is therefore compliant with the highest security requirements: Common Criteria EAL5+ certification (BSI-PP-0002), VISA level 3 and MasterCard CAST. The file system application allows card issuers to create a completely independent application placed under a DF in the master file, as all ISO 7816 file types are supported.

ID-One Prime benefits from all the security mechanisms already deployed in mass volumes worldwide on high-end products and is available with an EEPROM memory footprint from 4K to 32K, with contact, contactless and dual communication interfaces.

- Secret storage of any confidential codes, data and keys
- Automatic Error Detection and Error Correction of the EEPROM (EDC/ECC)
- Protection against Simple Power Analysis (SPA) and Differential Power Analysis (DPA) attacks, Differential Fault Analysis (DFA) and Electromagnetic Emanation Attack (EMA)
- Active authentication using Verify command with PIN/Password
- Passive authentication using Internal Authenticate, External Authenticate and Mutual Authenticate commands
- Anti-tearing mechanism for data integrity



Oberthur Technologies respects the environment.

The number of printed brochures produced by the company has been significantly reduced to save paper. Printed documents are produced on FSC-certified paper using aqueous inks to reduce environmental impact.

Electronic documentation can be downloaded in PDF format here:

<http://downloadservice.oberthurcs.com/>