

STARCOS® 3.0

Smart card operating system
surpassing all expectations



Giesecke & Devrient



STARCOS® 3.0



For years now STARCOS® S, SPK and DI from Giesecke & Devrient have been the proven and secure operating systems of choice for smart cards. This successful series now includes the newly developed STARCOS® 3.0. STARCOS® 3.0 offers the greatest security and speed in a complex architecture, making it the optimum future-proof, flexible operating system for high-end smart cards.

Discerning customers appreciate the varied range of applications provided by STARCOS® 3.0, for example:

- National ID cards
- Chip passports
- Health cards
- Corporate ID cards

Having incorporated all of today's requirements into the development of STARCOS® 3.0, G&D has created the ideal platform for implementing customer-specific functions and applications. These can be deployed in EEPROM without

any problems without the need to adapt the ROM mask. Implementation in the ROM mask is also possible as required and upon request.

The utmost in security

STARCOS® 3.0 features a well designed security concept, which enables numerous applications to be stored on a single card completely separate from one another. Of particular interest to application developers: it is possible to define different security levels and assign them to individual applications on a single card. The ideal solution for high-end smart cards with multi-functional properties allows for the implementation of even the most individual customer requirements.

STARCOS® 3.0 supports symmetric as well as asymmetric encryption methods. Let G&D develop your unique application – completely in line with our distinct security philosophy.

Technical Data

Chip

Philips Smart MX

Memory

72 kBytes, 36 kBytes upon request

Encryption

Symmetric: DES, 3DES
Asymmetric: RSA-CRT with up to 2048 bits

Standards

ISO 7816-4/-8/-9
ISO 14443-1/-2/-3/-4

Interfaces

Contact-based, contactless or dual interface

Supported protocols

ISO 7816-3 T=0 and T=1

Features

- Security system according to 7816-4
- Up to 8 DF levels
- Up to 4 logical channels
- Secure Write
- Secure Messaging
- Memory management
- Several authentication options

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