



Mobile Security Card 2.x MMC™

Secure flexibility based on Sm@rtCafé® Expert



Maximum flexibility through Java Card™ technology

The G&D Mobile Security Card 2.x MMC™ is a secure MultiMediaCard™ (MMC™) providing additional smart card functionality for security operations.

Based on Sm@rtCafé® Expert 64, the G&D Java Card™ operating system, the Mobile Security Card 2.x supports multiple applications and complies with Open Platform specifications.

In practice, this means simplified implementation and cost-effective operation coupled with maximum flexibility and security.

Compared to conventional smart card operating systems with fixed applications, the Java™ based Mobile Security Card 2.x is capable of loading, installing, and activating Java Card™ applets in a secure and dynamic way.

The Mobile Security Card 2.x builds on the globally established industry standard for MMC™ cards with security function. Windows Mobile® operated mobile devices with MMC™ slot directly access the security functionalities (e.g. securely stored cryptographic keys) on the Mobile Security Card.

Thus, it provides the same high-security level that well-known smart card systems facilitate, without the burden of an additional card reader.



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Competence with security

Functionality and security are the focus of the Java™-based Mobile Security Card 2.x. With Sm@rtCafé® Expert 64 operating system and many security algorithms and functions are available. It supports the complete Java Card™ API as well as the Open Platform API.

Optional features, such as multiple security domains, delegated management, and DAP verification are fully available.

G&D has already proven its competence in implementing smart card technology projects world-wide.

Governments, banks, telecommunications enterprises as well as industrial companies are among our customers.

G&D provides you with successful support from the planning phase, through implementation, all the way to actual operation.

Applications

G&D's Mobile Security Card 2.x MMC™ is supported by the StarSign® product family for loading the corresponding PKI applets. This makes it usable in the greatest possible selection of mobile applications, such as single sign on,

hard disk encryption, e-mail signing, and many more, on the most varied platforms.

Evaluation Kit

For the purpose of testing the potential and ease of use of Mobile Security Cards in real operation, G&D offers an evaluation kit containing two G&D Mobile Security Cards 2.x with MMC™ form factor and a card reader with USB interface, as well as middle-ware and drivers for the mobile device.

New SD Cards

Our Secure Flash Card family will be extended by a µSD Card and a Mini SD Card. Product release is planned for Q3/2007.

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Technical key features

Specifications

- Java Card™ 2.2
- GlobalPlatform 2.0.1'
- MultiMediaCard™ specification, version 4.0
- SecureMMC 2.0 interface layer specification, version 1.0
- ISO/IEC

Advanced specification features

- Memory management
- Multiple security domains
- Delegated management

Security

- FIPS 140-2, level 3 certified cryptographic algorithms
- Symmetric encryption: DES, 3-DES, AES
- Asymmetric encryption: RSA up to 2048 bit, DSA up to 1024 bit
- Digital signatures with symmetric/ asymmetric encryption
- DAP verification 3-DES/RSA
- Enhanced high security memory management

Chip

- 16 bit high-security micro-controller
- Common Criteria EAL 4+ certified

Memory

- 64 KB EEPROM

Compatible middleware

- StarSign®



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