



Sealys Secure Storage MPCOS easy Range

MPCOS Easy: doing more for contactless multi-application programs

FINANCIAL SERVICES & RETAIL

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TELECOMMUNICATIONS



MPCOS Easy: doing more for contactless multi-application programs

Gemalto offers the new contactless generation of the highly successful MPCOS microprocessor card available in the market since 1994. MPCOS is the answer for governments, public organizations, agencies and financial institutions that need to securely switch to full contactless technology with minimal impact on their existing infrastructure and applications. The Gemalto MPCOS multi-application card continues to enjoy industry-wide support. With more than 110 million cards deployed. It provides a fast, flexible and cost-effective smart card application environment.

MPCOS Success story

Adopted as the national standard for electronic purse in some countries, it has also been selected as the de facto standard for eID, eHealthcare and banking cards in many cases. More than 350 customers and partners have already chosen MPCOS for its ease-of-use, its solid technical support, tools and documentation, and its large community of system developers.

A wealth of applications

The MPCOS allows the following combinations:

- Public Sector: eIdentification, eHealthcare, electronic benefit transfer, electronic health record
- Financial services: debit/credit, preauthorized debit, electronic purse, eLoyalty, on-line banking authentication
- Access control for corporations and public agencies: physical access, network and computer access control, combined identification, digital certificate storage
- Transport: electronic road pricing, toll collection

Key benefits

Easy application development:

- A complete set of commands to build contactless Point of Sale (POS) or "over the Internet" applications is already embedded in the MPCOS application development tool. You just need to define your application with its related business case and you are all set.

MPCOS easy technical specifications

General Features

- JavaCard Virtual Machine, RTE and API compliant with JC2.2.1
- Card Management & API compliant with GP2.1.1
- SCP01 and SCP02 supported with scripting capability of Amendment A
- Cryptographic algorithms*: 3DES (ECB, CBC),
- On-card asymmetric key pair generation
- Delegated Management
- Multiple Logical Channel (permit selection of multiple applets at the same time)
- Contactless Interface: ISO14443 type-A and type B (by default)
- Communication mode ISO14443-4, T=CL supported, Mifare-1 emulation on part of memory
- Available EEPROM :
 - 72K Bytes + Mifare Emulation
 - 16K Bytes + Mifare Emulation
 - 8K Bytes + Mifare Emulation
 - 4K Bytes without Mifare Emulation

Pre-loaded applets in ROM

- MPCOS applet
 - 3-DES based secured data storage application
 - ISO7816-5 file management system allowing multiple DF creation
- ICAO applet
 - For compatibility with GemBorder-64K product
 - No RSA generator (passive authentication)
- EMV applet upon request

Ordering Options

Card Body Ordering Options:

- PC
- PET
- PVC with banking attributes (Signature panel, Hologram,...),
- Standard PVC
- GemTwin for solutions

including an additional contact module

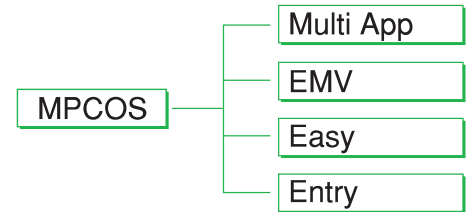
Electrical Ordering Options:

- Standard flow
- Customized flow

For more details, please contact your Gemalto Technical Consultant

From contact to contactless

A selection of MPCOS-compatible smart card platforms are available to create new applications, while capitalizing on existing ones already built on MPCOS:



Multi App ID

Multi-applications on PK platforms contact or dual interface cards
Digital Signature, e-ID, e-healthcare, Transport, Payment, Loyalty

EMV

Secure storage on EMV compliant cards
contact: e-ID, e-healthcare, Payment, Loyalty, Security

Easy

Secure contactless storage card
contactless: eID, eHealthcare, Payment, Loyalty, Security

Entry

Secure entry range storage card: data storage

Data storage

Interoperability & stability to protect your investment

- MPCOS allows quick rollouts with its interoperability with standards and strong support from Gemalto's partners.

Security in mind

- Based on certified FIPS-140 products, the platform implements advanced security features protecting both sensitive data and programs.

Real Garbage Collector

- New in JC2.2 spec, memory can be optimized in real-time at object deletion and made available to the applets.