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## IDClassic MPCOS 10

**Brand:** Gemalto  
**Product Code:** SMA1005285



### **Description** **MPCOS easy**

A selection of MPCOS-compatible smart card platforms that are available to create new applications, while capitalizing on existing ones that are already built on MPCOS: **The guarantee of an evolving application, from the basic contact cards to?**

- **MPCOS Entry** - Secure entry range storage card
- **MPCOS Easy** - Secure Contactless storage card
- **MPCOS EMV ranges** - Secure storage on EMV compliant cards
- **MPCOS Multi App** - Multi application on PK platforms, contact or Dual interface (Combi card)

### **Interoperability & stability to protect your investment:**

- MPCOS allows quick card rollout due to its interoperability with the international standards and the support by existing infrastructure.

The Gemalto Multi application contactless card

Gemalto offers the new contactless generation of the highly successful MPCOS

microprocessor card, which has been in the market since 1994.

This new card range was built on the need from Governements, Public organizations and Banks to switch to full contactless technology with minimal impact on their existing infrastructure and value-added applications.

At the same time, the best security measures were implemented to safeguard against all known attacks against smart cards.

The Gemalto MPCOS multi-application card continues to enjoy industry-wide support. It provides a fast and flexible smart card application environment that is even more cost effective.

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## **MPCOS Success story**

It has been adopted as the national standard for electronic purse in some countries, while being the de facto standard in others for e-ID, e-healthcare and banking cards.

Our customers, more than 350 worldwide, and partners choose MPCOS because it is easy to use, comes with good technical support, tools and documentation, and it is a generally well-known solution for system developers.

More than 110 million cards have already been deployed worldwide.

# **MPCOS Easy Applications**

The "Easy " stands for contactless exchange with the contactless infrastructure.

- The MPCOS card permits to combine the applications below:
- E-ID and e-healthcare: identification, healthcare, electronic benefit transfer, electronic health record
- Financial services: debit/credit, pre-authorized debit, electronic purse, e-loyalty, on-line banking authentication
- Electronic business security: network and computer access control, digital certificate storage, secure e-commerce
- Corporate and schools: combined identification, physical access and electronic purse
- Transport: electronic road pricing, toll collection

## **MPCOS Easy Benefits**

### **Easy application development:**

- All the commands to build contactless Point of Sale (POS) or ?over the Internet? applications are already embedded in the MPCOS application development tool. You need only define your application with its related business case and you are ready to enter into the Smart World.

**The guarantee of an evolving application, from the basic contact cards to?**

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## **Interoperability & stability to protect your investment:**

- MPCOS allows quick card rollout due to its interoperability with the international standards and the support by existing infrastructure of Gemalto? partners.

## **No compromise on security**

- Acknowledged based on products certified FIPS-140 , the platform implements most advance security countermeasures enforcing protection of all sensitive data and function in the card.

## **Real Garbage Collector**

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

## **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**