SOLUTION BRIEF

MTCOS ID 2.6 native OS on Infineon's SLC37

High-performance platform for electronic IDs

MTCOS ID 2.6 by MASKTECH is a flexible, high-performance native operating system, running on Infineon's CC EAL6+ (high) certified 40 nm SLC37 security controller.

Infineon offers the latest version of this native operating system (OS) to realize various electronic ID documents that can be easily adapted to your needs.

This solution is designed to serve electronic ID projects. Its flexible file system can easily be adapted to meet specific project needs, and the sophisticated lifecycle model allows for secured support of distinct supply chains.

All major international standards for secured ID cards are supported. Examples are the ISO/IEC 7816 file system and command set, the ICAO Doc 9303 data structures with different authentication protocols, and the ISO/IEC 18013 standards for driving licenses.

MTCOS ID 2.6 provides security-evaluated cryptography and supports a variety of electronic ID applications such as:

Key applications

- **Electronic passports** or other ICAO-compliant travel documents
- **National IDs** – ICAO-compliant documents
- **Healthcare cards** – supporting modern health IT infrastructures
- **Driving licenses** – EU and internationally accepted format
- **Residence permits** – ICAO-compliant

The whole solution combining MTCOS ID 2.6 on Infineon's security controller SLC37 is certified to Common Criteria EAL5+ (high).

Key features

Available applications

- Electronic passport
- National ID
- Healthcare card
- Driving license
- Residence permit
- Customized applications

Security Protocols

- BAC, SAC, EAC, AA

Cryptography

- RSA up to 4096 bits
- ECC up to 521 bits
- AES (up to 256 bits) and 3DES
- SHA2 up to 512 bits

Supported international standards

- ICAO Doc 9303 8th Edition
- ISO/IEC 18013

Communication interfaces

- ISO/IEC 7816 up to 312 kbps
- ISO/IEC 14443 Type A/B up to 848 kbps
- ISO/IEC 14443 VHBR up to 1.7 Mbps

Certification

- OS: CC EAL5+ (high)
- HW: EAL6+ (high)



Electronic ID applications available with MTCOS ID 2.6 native OS on SLC37

MTCOS 2.6 is a native operating system implementation designed for the SLC37 security controller. It has been optimized to get the best possible performance from the SLC37 security controller hardware.

Various options for different use cases are available. Some example configurations are shown in the table below.

Product summary

Sales code	User memory	Features
SLN37GLA130BM	130 KB	Contactless eDL (Drivers License)
SLN37GLA130AM	130 KB	Contactless eMRTD (electronic machine readable travel document)
SLN37GLA080AM	80 KB	Contactless eMRTD with reduced memory size
SLN37GDA130DM	130 KB	Dual Interface ePKI (eSignature)
SLN37GDA100KM	100 KB	Dual Interface eMRTD with ePKI

Published by
Infineon Technologies AG
Am Campeon 1-15, 85579 Neubiberg
Germany

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Public
Version: V1.2_EN
Date: 10 / 2025

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