

MULTOStm

One MULTOS, many possibilities

The Smartcard that has it all

MULTOS is the most robust, secure smartcard technology that delivers simplicity and innovation to major smartcard deployments around the world.

Designed to meet a wide range of requirements including **multi-functional, multi-application and high security**, it is an ideal platform for many smartcard implementations including:

- identity
- authentication
- access control
- digital credentials storage
- loyalty
- payments

Why MULTOS?

Feature rich and secure

- » **Multi application**
Several different applications can reside on the same card at any stage of its card lifecycle.
- » **Flexible provisioning**
MULTOS has built-in asymmetric cryptography enabling instant and remote provisioning of secure data over any network.
- » **Secure microcontroller**
MULTOS is implemented within hardened micro-controller for optimum protection and functionality.
- » **The safe choice**
MULTOS has the highest level of security evaluation for any smart card operating system.

Easy

- » **Easy to program**
Applications can be written in C or Assembler for easy development.
- » **Portable**
MULTOS applications can be loaded onto any MULTOS product, across any network using existing infrastructure.
- » **Development tools**
Access a wide range of free materials and tools.
- » **Training & support**
Free access to training materials and online support.
- » **MULTOS community**
Free access to an online forum where new technical queries can be posted or answers to FAQs can be found.

Fast

- » **Reduced time to market**
As a complete security framework, MULTOS reduces the effort required for any secure card deployments.
- » **Readymade testing environment**
MULTOS has a range of tools that allow easy testing of applications enabling fast track deployment.
- » **Fast performance**
MULTOS is unrivalled for its personalisation and provisioning speed and reliability.
- » **Supply chain choice**
Cards and management tools can be sourced from multiple vendors without compatibility issues or software changes.



The architecture

MULTOS has two key features that deliver its secure architecture:

- the **on-chip virtual machine** that executes applications,
- the **MULTOS security scheme** that protects the chip, application and application data.



MULTOS applications are developed in 'C' or Assembler and compiled into MULTOS Executable Language (MEL) bytecode that is executed by the virtual machine. The virtual machine rejects any invalid instructions or attempted illegal memory accesses and the inbuilt firewalls ensure that one application cannot access the data of another application on the same smartcard.

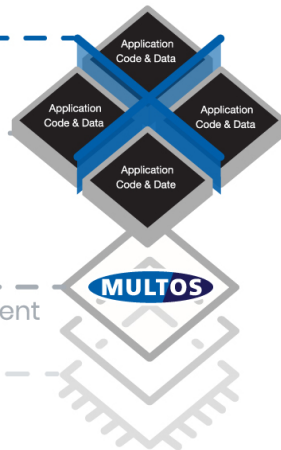
Proven Firewalls

Issuer Controlled Loading

Secure Operating System

Secure Execution Environment

Hardened Microcontroller



MULTOS Platforms

Available on contact, contactless and dual interface cards, MULTOS offers a range of platforms to suit customer needs.

Memory size:	up to 160k
Advanced cryptography:	RSA, ECC, 3DES, AES, SHA-1 & SHA-2
Highest certification:	Common Criteria EAL6+ High – VM EAL7

A number of MULTOS platforms are also available with preloaded widely deployed applications.

Trusted technology, backed by industry

MULTOS has obtained the highest band of security approval, the Common Criteria EAL7 certification and is used by thousands of businesses around the world.

The MULTOS technology is openly governed and promoted by the MULTOS Consortium. Established in 1998, the cross-industry consortium of global organisations has been promoting MULTOS as a standard for smart cards and devices across a wide range of markets. The consortium governs the development of the technology to meet customer needs, sets policies for the open licensing of the MULTOS specifications, and ensure the interoperability of platforms through the type approval and security evaluation policies of the MULTOS platform.

Email us at info@multos.com or scan the barcode below:

