

Product Brief

SafeNet IDCore 140C/3140C

Java-based Smart Cards

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Building a future we can all trust

Thales, the world leader in digital security, offers an extensive portfolio of identity and access management solutions including a wide range of multi-factor authentication methods.

SafeNet IDCore 140C and SafeNet IDCore 3140C are the state-of-the-art releases in the SafeNet IDCore portfolio. Both cards benefit from the most commonly used Java Card technology standards. These Java Card platforms are available from Thales as open, multi-application cards and are ideally suited for markets such as Identity or Security/Access.

SafeNet IDCore 140C is a contact only card, and SafeNet IDCore 3140C is a dual interface Public Key Java Card which is also compatible with some NFC readers.

These two versions of the same platform meet the most advanced security requirements of long-term, multi-application programs, including those being deployed by large global organizations. They increase the Operating System Security with a Common Criteria evaluation reaching EAL 6+. They comply with the most commonly used international standards including:

- Java Card 3.1
- Global Platform 2.3.1
- ISO 7816 for SafeNet IDCore 140C/3140C
- ISO 14443 for SafeNet IDCore 3140C only

The SafeNet IDCore 140C and 3140C are part of a portfolio of flexible open platform security solutions that can be easily customized to fit into any corporate or public sector environment. With a full range of multi-purpose smart cards, SafeNet IDCore solutions support applications such as logical and physical access, PKI services and digital transactions. Additional benefits from Thales' proven Java Card experience and product offer include support, personalization services and integration to Card Management systems.

Flash memory

Both SafeNet IDCore 140C and 3140C have 160 KB flash memory available for applications and data, and ensure optimization of the memory allocation, extended multi-application capability, large data capacity and lifetime. Memory can be released to the platform in real-time upon object deletion and made available to the applets.

In addition, an MPCOS applet can be loaded optionally into the flash memory, making application development easier. The MPCOS applet is fully compatible with the high performance native MPCOS Operating System and can be used for secure data management and e-purse applications.

Benefits

- **Flash memory**—Flash memory ensures optimization of the memory allocation, extended multi-application capability, large data capacity and lifetime. Easy application deployment thanks to the MPCOS Thales applet that can optionally be loaded in the flash memory.
- **Flexibility and modularity**—The open platform principle and interoperability enable the separation of application development (applet) from the platform. This also supports aggressive time-to-market for introduction of new applications. Existing third-party applets from most vendors can be loaded and cards that are compatible with existing ones can be generated quickly.
- **High performance**—The Safenet IDCore 140C/3140C embedded virtual machine has been highly optimized to offer maximum software performance, making it one of the fastest Java Open Platforms available.

No Compromise on Security

As reflected by the new CC EAL6+/ PP Java Card certification of its Java Card OS, the SafeNet IDCore 140C/3140C platform implements the most advanced security countermeasures for enforcing protection of all sensitive data and functions in the card. The SafeNet IDCore Java Card OS was developed by an industry-leading security team that designed it to implement counter measures against various threats, including side channel, invasive, advanced fault, and other types of attacks.



Product characteristics

Flash memory	<ul style="list-style-type: none"> • 160KB Flash memory available for applications and data
Standards	<ul style="list-style-type: none"> • Java Card 3.1 • Global Platform 2.3.1 • ISO 7816 • ISO 14443
Cryptographic algorithms	<ul style="list-style-type: none"> • Symmetric: 3DES (ECB, CBC), AES (128, 192, 256 bits) • Hash: SHA-1, SHA2 (224, 256, 384, 512), SHA3 (224, 256, 384, 512) • RSA: up to RSA 4096 bits • Elliptic curves: P-224, P-256, P-384, P-521 bits • On-card asymmetric key pair generation
Communication protocols	<ul style="list-style-type: none"> • T=0, T=1, PPS with baud rate up to 446 Kbps at 3.57 MZ (TA1=97h) • T=CL, ISO 14443 type A & type B, with speed up to 848 Kbps *
Other OS features	<ul style="list-style-type: none"> • PK-based DAP (to control the applets that can be loaded on the card) • Delegated Management • Support of Extended Length APDU • Multiple Logical Channels • Real Garbage collector (memory space can be recovered after individual object deletion)

Thales applets (optional)

MPCOS	<ul style="list-style-type: none"> • E-purse & secure data management application
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Chip characteristics

Technology	<ul style="list-style-type: none"> • Flash memory • 32-bit microcontroller • Embedded crypto engine for symmetric and asymmetric cryptography
Lifetime	<ul style="list-style-type: none"> • Minimum 500,000 write/erase cycles • Data retention for minimum 25 years at 25
Certification	<ul style="list-style-type: none"> • CC EAL6+/PP Java Card certified

Security

	<ul style="list-style-type: none"> • The SafeNet IDCore 140/3140C include multiple hardware and software countermeasures against various attacks: side channel attacks, invasive attacks, advanced fault attacks and other types of attacks.
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*For SafeNet IDCore 3140C only

About OneWelcome Identity and Access Management Solutions

Thales's digital identity products and solutions empower billions of people and things with digital identities worldwide. The Thales OneWelcome Identity & Access Management portfolio enables organizations to build frictionless, trusted and secure digital journeys for customers, business partners and employees. The OneWelcome Identity Platform provides a variety of capabilities from identity verification, single sign-on, passwordless and multi-factor authentication to fraud management, adaptive access, dynamic authorization and consent & preference management for the highest levels of assurance. More than 30,000 organizations trust us with their IAM and data security needs, enabling them to deliver secure digital services to their users.

About Thales

Today's businesses and governments depend on the cloud, data and software to deliver trusted digital services. That is why the most recognized brands and organizations around the world, rely on Thales to help them protect sensitive information and software wherever it is created, stored or accessed – from the cloud and data centers to devices and across networks. As the global leader in data security, identity & access management, and software licensing, our solutions enable organizations to move to the cloud securely, achieve compliance with confidence, create more value from their software and deliver seamless digital experiences for millions of consumers every day.