

The first FIPS 140-1 Level 2 64K Java Card™ in the market

GemXpresso Pro is part of the Gemplus Java Card™ range, delivering the first commercially available FIPS 140-1 Level 2 validated 64K Java Card product for the ID & Security market. GemXpresso Pro is specifically designed to meet the demanding requirements of multi-application security programs in government environments.

GemXpresso Pro offers all the features and benefits associated with a secure multi-application ID card program:

Open, interoperable platform

The Java Card "write once, run anywhere®" standard defines an open and interoperable platform where developers can write applets and run them on any Java Card smart card on the market, independently from the operating system or chip used.

FIPS validation

GemXpresso Pro is the first 64K Java Card platform to achieve FIPS 140-1 validation, meeting all security requirements at Level 2 of Federal Information Processing Standard (FIPS) 140-1. This means that the GemXpresso Pro officially meets the U.S. government's key security requirement for a cryptographic technology, and that it is approved for use within the U.S. government just about anywhere smart card-based cryptographic technology is needed.

Common Criteria certification

GemXpresso Pro is the first Java Card platform to conform with official European and U.S. government

standards and achieve the highest level of security available on the market - **Common Criteria EAL 5+**. Common Criteria is an international certification that evaluates the security of IT products, and is rapidly becoming standard security for sensitive data. EAL (Evaluation Assurance Level) represents the level of confidence of an IT security product or system evaluated by Common Criteria.



Secure and flexible applet download

GemXpresso Pro has been designed to ensure secure applet download, enabling several applets to reside safely in the same card. Through this technology, it is possible to add new applications or upgrade existing ones to the card, dynamically adapting service offers to the end user even after the card has already been issued, so called **post-issuance**.



More services in your card

Value added services help you to increase the use of your card, and offer exclusive services to existing cardholders. The ability to upgrade the set of applications hosted in the card will allow you to extend its duration, and reach new users with specific applications. Internet Authentication, Electronic Commerce, Debit/credit and Mobile Commerce are few examples of services that will enable you to develop high value services for existing and future cardholders.

High-performance

The GemXpresso Pro 64K card possesses a large range of high-performance capabilities to support security and service applications. It is fully **PKI** (Public Key Infrastructure) enabled with fast onboard crypto-processors, including advanced software routines. When loaded with a digital signature applet, the cards can be used for secure e-commerce or e-Government services. Furthermore, GemXpresso Pro possesses full support for **biometrics** technology, enabling secure storage of biometric data such as fingerprints.

Quicker time-to-market

Java Card language allows access to smart card technology to the wide community of Java™ developers. Java Card programming is object oriented: applet development is quicker and more efficient.

GemXpresso complete range of solutions

Gemplus' offer goes much beyond the card to help you design and implement your smart card application and migration program. GemXpresso Pro is part of the complete GemXpresso offer including:

- A wide range of Java Card platforms from Cost-effective GemXpresso Lite cards up to GemXpresso Pro
- A complete Java Card application development tool suite: GemXpresso RAD
- Java Card/Open Platform training and consulting services
- Open Platform smart card management system
- Java Card applet loading and personalization services
- Smart card interface devices
- A wide variety of applets designed to support the GemXpresso platform, including certificate management, digital signatures and data management

In addition to the GemXpresso Pro smart card platform, Gemplus offers a wide variety of products and services targeted towards ID applications, including readers, software, issuance, personalization, services & consulting and more.

For more information contact:

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