

Public Telephony Security Offer

||||| UniSAM™, the first open-standard security application module



FINANCIAL SERVICES & RETAIL

ENTERPRISE

INTERNET CONTENT PROVIDERS

PUBLIC SECTOR

TELECOMMUNICATIONS > PRODUCT

TRANSPORT



gemalto[★]
security to be free

Public Telephony Security Offer

UniSAM™, the first open-standard security application module

In a permanently moving market, security and fraud are key concerns for telecom operators.

Thanks to UniSAM, both operators and integrators benefit from a security module compatible with any new or existing payphone system. UniSAM specializes in providing optimum security to prepaid memory card based applications, offering high evolution and customization capabilities.

Authentication of memory cards

UniSAM is a tamper-proof smart card and the first open-standard Security Application Module for active phone card authentication. UniSAM can be installed in payphones or in especially designed terminals, its first role being to authenticate prepaid user cards. It offers security against fraud and allows dynamic storage of issuers' private information. It also ensures interoperability between various service providers.

The key to safety

To meet the security requirements of telecom operators and strengthen the payphone system, UniSAM provides three levels of security:

> A reliable & efficient product:

UniSAM integrates state-of-the-art architecture and software design. It includes the latest countermeasures against known attacks and strong data protection mechanisms.

> A qualified product:

UniSAM benefits from Gemalto's expertise in high-level security and from a certified Common Criteria EAL+5 hardware chip.

> A powerful product:

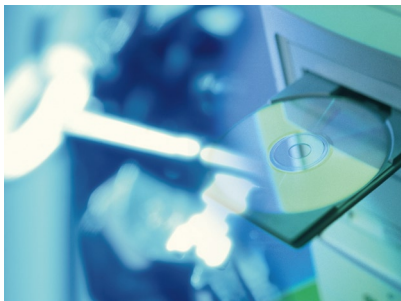
UniSAM runs many more complex security mechanisms many times faster, thanks to high-speed processing and a large memory capacity.

Open and flexible

UniSAM provides extensive security. In addition to Eurochip and T2G phone cards, UniSAM can deal with any other phone card. It is also compatible with any pre-existing or

new security solution as it has been especially designed to support customization. It offers cost-effective and secure upgrade capabilities, thanks to an innovative, reliable remote software downloading process. Thanks to this open standard SAM, telecom operators are able to answer new requirements. UniSAM enables integration of any specific need or new concept, such as SAM multi-sourcing, enhanced security functions, multi-application schemes, private e-purse, smart calling cards, etc.

Features	
Phone card management	<ul style="list-style-type: none"> > Active off-line phone card authentication: Eurochip I, Eurochip II, Eurochip 66, T2G, T2G+ > Generation of diversified key > Safe revenue counter management and uploading > Secure file architecture > Ideal for multi-application schemes and interoperability
Open & flexible	<ul style="list-style-type: none"> > Easy customization > Secure software download capabilities > Secure key download and administration
Technical features	<ul style="list-style-type: none"> > 18 Kbytes EEPROM memory > Extended power supply 3V/5V > Protocol T=0 as specified by ISO 7816-3
Security	<ul style="list-style-type: none"> > Cryptographic algorithms (3 DES, TESA7) > Multiple hardware and software countermeasures against security attacks > Hardware chip certified Common Criteria (EAL +5)
Benefits	
	<ul style="list-style-type: none"> > No compromise on security or performance > Cost effective flexibility > Secure openness after issuance > Can be integrated into any new or existing payphone application > Enables SAM multi-sourcing > Allows reliable interoperability



Active authentication overview

