jTOP ID Flex

Flexible Java Card™ Platform for Government ID Projects

The jTOP product family is growing. Next to the jTOP based on SLE 78 with Integrity Guard now the new jTOP ID Flex is available. It is based on Infineon's modern SOLID FLASH™ controller SLE 77 and brings new dimension of flexibility for Java Card customers.

High flexible & agile platform changes the supply paradigm
The SOLID FLASH™ technology provides more flexibility along the whole value chain. Instead of fixing the software in ROM at the very beginning, ID Flex can securely load the software even when the chip has been issued. This could save several months in software customization and provides high flexibility to adjust features with best time-to-market.

Moreover SOLID FLASH™ technology is so adaptable that one basic chip platform can serve many software applications. This eases management of multiple projects and reduces the cost in stock-keeping.

Certifiable software evaluated according to Common Criteria
The Infineon SLE 77 security controllers are Common Criteria EAL5+ certified. The software jTOP ID Flex will be evaluated by a 3rd party security laboratory according to the Common Criteria scheme.

Certifiable software allows the maximum flexibility in system integration, to handle even "last-minute" changes. It provides therefore a quick and cost-saving solution featuring the most important Java Card 3.0 components.

Key Features

Typical Applications
- National eID
- eHealth-Care
- eDriver's-License
- eSocial-Security
- eVoter

Customer Benefits
- One-stop-shop with high cost-benefit ratio for single applications
- SOLID FLASH™ enables rapid proto-typing and production
- EAL5+ certifiable for maximum flexibility in customization and best time-to-market

Platform Features
- Java Card 3.0.4 classic
- GlobalPlatform 2.1.1
- SCP 02
- Up to 64KB free to use NVM
- ISO/IEC 7816 contact-based
- ISO/IEC 14443 contactless Type A/B
- Mifare compatible 1k/4k options
- TDES & AES H/W accelerators
- RSA up to 2048-bits via Crypto co-processor
- Government ID API for applet developers

SOLID FLASH™   Java

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Essential ID features enable rapid business cost-effectively
jTOP ID Flex complies with the common industrial standards like ISO and Global Platform. This makes the product easy to integrate into the Java eco-system. In addition to the standardized Java Card platform features a set of common government ID functions are provided to users to ease the applet developments. Customization service is offered via Infineon's global team. Due to the high flexibility of SOLID FLASH™ the design can be quickly realized into a final device.

jTOP ID Flex provides a range of cryptographic functions to enable common ID applications including RSA up to 2048bits, TDES and AES up to 256bits, SHA1, SHA2 up to 256bits. The communication interface including ISO/IEC 7816 up to 312kbps, and ISO/IEC 14443 Type A & B up to 848kbps provides high interoperability and flexible system integration.

Additional specific functions can be provided on demand. Issuers can develop their own applications and load them as required. This makes the product more adaptable to user needs and therefore significantly increases suppliers' competitiveness in the forever changing market environment.

Sample Availability

Product	User Memory[1]	Package[2]	Features	Ordering Code
SLJ 32GDA064CL	64KB	Card with Coil on Module	Dual interface 16-bit crypto controller with Java Card 3.0 Flex	SP001248752

1) Other memory sizes based on SLE 77 are available on request.
2) Typical delivery forms are wafer, Dual Interface S-COM8.6, contactless MCC8-2-6, MCS8-2-1 and contact-based T-M4.8, MFC5.8.

Infineon and Trusted Logic
jTOP ID Flex is the perfect combination of product and service know-how from leading semi-conductor provider Infineon Technologies and Java Card pioneer Trusted Logic.

Infineon is an innovative and long-standing supplier of hardware-based secure ID solutions, leading the chip card controller market for 15 consecutive years. More than 100 reference projects across all Government ID applications in 58 countries (representing 66% of the world's population) trust Infineon's solutions.

Trusted Logic provides open and secure software for smart cards, terminals & consumer devices. Its subsidiary Trusted Labs has written Java Card protection profile, which is used across the industry for Java Card security standard.

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