

Product Brief

OPTIGATM Trust P SLJ 52ACA

Programmable Authentication and Device Security

Infineon Technologies' SLJ 52ACA is a high security and feature rich member of the OPTIGATM Trust Authentication product family. As a fully programmable chip, it provides a flexible solution for a full range of security functions, such as authentication, secure updates, key generation and storage, protected storage, memory integrity, secure boot, and access control management.

The OPTIGA™ Trust P is a trust anchor for embedded systems. As a hardware security microcontroller, it provides advanced and efficient protection against side-channel, fault-induction, and physical attacks. It also provides a physical separation and the options for access controls and memory integrity checks to protect against software attacks. A wide range of cryptographic functions can be utilized through applications running on the device's JavaCard operating system. Reference applets and host code enable quick and easy implementation of most common security functions while the included development tools allow the flexibility for full customization into proprietary security systems.

Along with other products in Infineon's OPTIGATM Trust and OPTIGATM TPM lines, the SLJ 52ACA enables protection of embedded systems against counterfeiting, unauthorized products, intentional attacks, and unintentional operator errors. It allows for secure control and updating of systems as well as maintaining information confidentiality and user privacy. The OPTIGATM Trust P is a superior solution to protect revenue retention, brand integrity, and product safety.

Application Use Cases

- Industrial Control Systems
- Energy Generation & Distribution Systems
- Healthcare Equipment and Networks
- Consumer Electronics
- Home Security & Automation
- Network Appliances

Main Features

- 16-bit security controller with built-in MMU and encrypted bus
- 150k user memory
- Common criteria EAL5+
- Unique chip ID
- HW symmetric & asymmetric crypto engine
- True hardware random number generator
- Supported cryptography:
 - RSA up to 2048
 - ECC up to 521
 - AES up to 256
 - TDES up to 256
 - SHA1/224/256/384/512
- DH/ECDH key agreement
- JavaCard 3.0.4 OS
- GlobalPlatform 2.2.1
- GlobalPlatform ID configuration 1.0
- Multiple SD, delegated management and mandated DAP
- PP JCS Open configuration ANSSI-CC-PP-2010/03
- Reference crypto applets and host source code
- VQFN-32 SMD package (5x5mm)
- ISO7816 UART interface (400kbps)



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Embedded security systems' partner of choice

Infineon is an innovative and long-standing supplier of hardware-based security solutions. Leading the security IC and security system market for more than 15 consecutive years, embedded security suppliers can trust on a stable and innovative supplier.

Infineon is the leading manufacturer of TPM (Trusted Platform Module) for the past 10 years. This experience, know-how and market experience greatly support the fulfillment of requirements in the embedded security

market and position Infineon as the global leader for security products and solutions.

With a global support network and multiple production sites, Infineon effectively serves projects around the world. Infineon is the preferred supplier for many embedded security solutions. Our continued investments in R&D propel innovation and maintain Infineon's leadership in the market.



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Information

For further information on technology, delivery terms and conditions and prices please contact your nearest Infineon Technologies Office (www.infineon.com).

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