



# Infineon Chip Card & Security

Security for the connected world



## Infineon Chip Card & Security Security. Convenience. Trust. Have it all!

Securing data, affording convenience, mastering complexity, building trust, gearing up for the future – each is a tough task on its own. But doing all at once is a tremendous challenge indeed. At the forefront of hardware-based security, Infineon Technologies has solutions that master this challenge.

In an increasingly mobile and connected digital world, data security, data integrity and data availability are the prerequisites for sustainable consumer confidence and successful business models, especially in the context of an increasing number of attacks on IT infrastructures and the growing number of complex applications. With Infineon's leading expertise in hardware-based security, certified according to international standards, Infineon enhances the security of chip card and security applications as well as critical infrastructures, mobile devices and upcoming technologies.

Already today, data storage, data processing and the data exchange between countless connected mobile devices and systems are crucial for business and society; and their importance will grow. Current examples are the arising possibility to pay with a smartphone, or cloud computing in which the computer application is driven by web infrastructure.

Trust and confidence in the solutions we use and the partners who provide them are essential. We want to give you the peace of mind that comes with knowing the security mechanisms are fail-safe. And we want you to feel at ease using convenient security technology, placing your trust in our experts to manage all the technical details.

Ready for the future. With tomorrow's applications ever diversifying, today's products must be flexible and scalable to meet the most demanding requirements. Infineon's innovations allow for the flexibility needed to adapt to these changes quickly.



## Worldwide support & local expertise

Infineon supplies handy tools that help you develop applications and software for the powerful security controllers we provide. Our European and Asian front-end operations enable our products with most advanced manufacturing technologies and our back-end operations provide state-of-the-art packaging, pre-assembly and assembly services. What's more, we offer customer-specific solutions, consulting services and support across our product range.

Although Infineon's reach is global, our strong local presence serves regional market needs. So you can have it both ways – comprehensive support worldwide and local expertise – to help you create the competitive products your business needs to succeed.

## The right partner, today and for many tomorrows to come

With a real interest in making security-demanding products & applications more secure, convenient, trustworthy and future-proof, Infineon helps you build better products at optimum cost. And with powerful technical support, a clear customer focus, considerable R&D investment and strong partnerships, we cover your every demand for leading security products. We offer all the support you need to make the most of these products.

Our performance promise is all about providing security and convenience. To live up to it, we relentlessly innovate and optimize security mechanisms to forestall new attack scenarios. Our security chips rise to the world's most rigorous certification standards, including Common Criteria EAL6+ (high). A leader and innovator for security, contactless technology and integrated microcontroller solutions, Infineon meets the need for tailored security, performance, cost efficiency, flexibility, interoperability and energy efficiency.



## Infineon, your partner of choice

Security products tailored to each application are within your easy reach. Infineon offers a wide range, starting with my-d™ contactless memories and Mifare compatible technology offering basic security levels, and extending to the SLE 76 controller family, which is targeted toward the SIM mass market. Our SLE 77 controller family is specifically designed for the payment and transportation market and comes with Infineon's SOLID FLASH™ providing enhanced flexibility while guaranteeing a certified security level. Infineon's Integrity Guard controller families offer security up to the highest levels needed for applications, such as Government Identification, Payment, Pay TV, System Security and NFC.

Convenience is assured with our contactless and dual-interface products. Supporting all major industry standards and engineered to deliver excellent performance, Infineon products readily meet the market's demands for interoperability and speed. Our products are also designed to offer the convenience of compatibility.

Trust comes easy with Infineon's solutions. Having led the chip card market for 15 years, Infineon has a long and distinguished record of achievements, with excellent references such as the USA's e-Passport, Germany's Electronic ID-card, Japan's FeliCa™ or the TPM for Chromebooks. And we have earned our customers' confidence with the highest security certificate levels, such as Common Criteria and EMVCo. awarded by independent certification authorities.



Gearing up today for tomorrow is what Infineon is all about. Our investment in R&D is an investment in your future. Innovative technologies, such as the award-winning digital security concept "Integrity Guard" represent a leap in terms of scalability and security. Our new SOLID FLASH™ memory concept combines the advantages of flash with Infineon's unique high security expertise and attests to our ability to anticipate trends and meet ever more demanding requirements! The CIPURSE™ open standard provides an advanced foundation for providing highly secure, interoperable and flexible transit fare collection solutions. Infineon's offering of CIPURSE™ compliant products emphasizes Infineon's commitment to truly open standards.

FeliCa™ is a trademark of Sony Corp.

With more than 25 years' experience in security ICs, Infineon offers the industry's most comprehensive product portfolio of semiconductor-based security products for a wide range of chip card and security applications. Beyond typical telecom SIM cards, payment cards, and government documents, Infineon is involved in delivering security solutions also to new areas, such as consumer goods, automotive and critical infrastructures.

**Applications**

 Payment	 Near-Field-Communication
 Mobile Communication	 Pay-TV
 Transport & Ticketing	 Object ID
 Secure eGovernment	 Authentication
 Trusted Computing	

## Expertise you can trust

### Tailored hardware-based security

From enhanced 8-/16-bit to high-end 32-bit cores, our CPU implementations satisfy every demand from basic, integral security to highest security, featuring crypto-processors for symmetric and asymmetric algorithms. Integrity Guard, the new, comprehensive digital security technology, features calculation with encrypted data in the CPU itself and error detection over the complete data path including a self-checking dual CPU core.

### Contactless expertise

The most comprehensive contactless product range supports all key standards, such as ISO/IEC 14443 Type A and Type B, FeliCa™ and Mifare compatible interface.

### Embedded control

Infineon's long-term expertise in hardware-based security and in-depth application know-how enables the optimization of chip card and security products, balancing requirements for performance, power, security and cost.

## Ask Infineon. Get connected with the answers.

Where you need it. When you need it.

Infineon offers its toll-free 0800/4001 service hotline as one central number, available 24/7 in English, Mandarin and German.

Our global connection service goes way beyond standard switchboard services by offering qualified support on the phone. Call us!

- Germany ..... 0800 951 951 951 (German/English)
- China, mainland ..... 4001 200 951 (Mandarin/English)
- India ..... 000 800 4402 951 (English)
- USA ..... 1-866 951 9519 (English/German)
- Other countries ..... 00\* 800 951 951 951 (English/German)
- Direct access ..... +49 89 234-0 (interconnection fee, German/English)

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