Secure Mobile Communication
Your first-choice solution for every application

Introduction

Infineon provides a broad variety of products and technology everyone can use to stay connected any time and anywhere – at home, in the office or when out and about. Infineon microcontrollers are widely used in SIM (Subscriber Identity Module) or UICC (Universal Integrated Circuit Card) cards. Since their introduction, these smart cards have been a cornerstone of mobile telephony's success story, playing a significant role as the secure token within the handset.
They will also be an important enabler for new opportunities in mobile communications.

While its main functionality has not evolved much over the recent years, the UICC has diversified to address a broader range of hosted applications such as mobile payment, access or public transport.

It can serve as the secure element in NFC-enabled handsets via its SWP interface. It can connect to other parts of the telephone to create a link to the mobile network operator via standard industry interfaces such as USB, SPI, I2C and others.

Use in electronic devices aside from the mobile handset has created requirements for a diversification of form factors, quality degrees, specifications and lifecycle management. Some of them have already been standardized by the industry, as in the case of the ETSI M2M specification; others are being discussed throughout the industry.

With its ample experience in automotive and industrial controllers, Infineon Technologies participates in the standardization of new UICC technologies and actively drives innovative ideas to address new business opportunities. Infineon IC powered products such as telematic boxes in the automobile or SIMpass™ in China demonstrate our expertise and dedication to emerging applications.

The most comprehensive portfolio of security controllers

Following the trend of ever-diversifying markets, Infineon has designed specific memory and controller families for different market segments and their specific applications. This powerful, flexible and broad portfolio comes with an astonishing ease of migration between the various families and outstanding technical support. Furthermore, the Infineon offering adapts to your needs with regard to delivery form, packaging and software support, ranging from firmware to third-party software solutions.

SLE 76 family addresses all mainstream UICC segments and is widely adopted throughout the market. Its performance, flexibility and reliability have made it one of the major volume platforms over the last years. Entirely compatible, the SLM 76 family can address extended ETSI standards for M2M applications in different segments and has established itself as the first choice in challenging conditions. The SLI 76 family is directed to meet high quality standards of automotive M2M.

SLE 88 family is already used in high-performance and high-security applications such as Mobile TV and SWP cards. Sporting a large on-board memory, symmetric and asymmetric cryptography HW support, a Mifare Classic emulation and CC EAL5+ (high) certification, it addresses all emerging applications of today's market.

SLE 97 family takes it one step further, hosting extensions and improvements in terms of interfaces, performance and flexibility. It comes with a full speed USB 2.0 interface as well as SPIs to enable the use of external memories. Its performance in combination with its readiness to host all major public transport scheme applications such as Mifare and CIPURSE™ make it the ideal platform for a universal use.

Making your company more competitive

All our efforts are devoted to developing products and solutions that make our customers more competitive. Our portfolio helps you gain a competitive edge by:

- Addressing new application areas. Join us and enjoy the innovative advantages of the SLE 88 and SLE 97 families. They allow you to address all emerging applications, enabling new services that require computing power, security, high memory densities, USB and SWP interfaces. Participate in the emerging M2M market with the SLM 76 and SLI 76 families to match upcoming industrial specifications.
- Speeding up delivery time with flexible flash solutions and serving cost-sensitive volume markets with tailored features. The SLE 76 family offers a broad range of flash solutions that lets you strike the best balance between cost and flexibility.
- Providing more flexibility with the latest packaging technology. Along widespread wirebond smart card module solutions, we provide products with FCOS™ flip chip packages, the latest evolution in chip card module technology. They combine top reliability, a variety of form factors (3FF, gold and goldless types) and a cost-efficient flip chip assembly.
- Reducing total cost of ownership by providing code flashing and initialization services. While flash products provide increased flexibility, the cost of downloading the code to each chip increases as the memory grows. Downloading parts of the code on wafer level in a secure Infineon environment helps reduce these costs, especially for Multimedia UICCs. Powerful flashloader solutions for SLE 76, SLE 88 and SLE 97 allow benchmark timing for secure code download on your own premises. We invite you to find out more about this increasingly important issue via our local sales representatives.

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!

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- 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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