SLI37C

Short Product Overview

Features

- 32-bit -ARM® SecurCore™ SC300™ @100 MHz enhanced by Infineon Technologies' 2 kByte cache and security technology
- Up to 2 MB SOLID FLASH™ NVM
- 48 kByte RAM
- Supported interfaces: UART, I2C, SWP, ESSC (SPI-Slave only supported by design step G), GPIO
- ISO7816
- Extended operational temperature range: -40°C to +105°C
- Extended data retention of a minimum of 17 years (at 25 °C)
- Certification: CC EAL 6+ high (BSI-CC-PP-0084-2014)
- Qualification according to AECQ-100

Applications

- Automotive eUICC, eCall
- Vehicle-to-Vehicle and Vehicle-to-Infrastructure communication
- Trust anchor in diverse automotive use cases

Description

The SLI37 SOLID FLASH™ family is Infineon's state-of-the-art generation of 32-bit ARM-based Security Controller – V21 optimized for automotive security applications. The SLI37 controllers are qualified according to AEC-Q100; they are tailored to the difficult environmental conditions of automotive environments and pass through exhaustive quality gates to minimize failure rates. Being certified according to Common Criteria EAL6+ high, the SLI37 familiy meets both the stringent requirements of the automotive industry as well as the highest security levels for the implementation of security applications in cars.

Product name	**SLI37C** Solid Flash™
Product description	Security cryptocontroller optimized for automotive eSIM applications
Interfaces	ISO7816, SWP, SPI, I^2C and GPIOs
Memory	4 SOLID FLASH™ NVM versions available: - 1M0 - 1M3 - 1M5 - 2M0 48 kByte RAM
CPU	32-bit -ARM® SecurCore™ SC300™ @100 MHz and 2 kByte Cache
Symmetrical cryptography	Symmetric Crypto Processor (SCP): AES up to 256-bit, DES, 3DES
Asymmetrical cryptography	High Performance Cryptographic Engine (Crypto@2304T) for PKI and ECC calculations: RSA up to 4096-bit, Elliptic Curves up to 521-bit
Ambient temperature	-40 to +105 °C
NVM Endurance	Minimum 3.2M write operations and 400k erase operations per page (values depend on software implementation).
Typical Data Retention	17 years @ 25°C and 105 °C
Delivery forms	MFF2 (VQFN-8), VQFN-32
Typical applications	eSIM for automotive appplications, eCall
Certification level	CC EAL 6+ high (IFX_CCI_00005A$_H$)

For further information on technology, delivery forms and conditions please contact your nearest Infineon Technologies sales representative (**www.infineon.com**).

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