Product Brief

SLM 97/SLI 97 SOLID FLASH™

Connectivity with High Quality

With a vast experience in security, telecommunications and automotive, Infineon is offering an extensive portfolio for M2M applications where high quality, endurance and security are key success factors. Infineon's product portfolio for the cellular M2M market has been specially designed to be a perfect match for Industrial M2M and in-Car connectivity.

SLM 97 – Driving the adoption of Industrial M2M solutions

Smart connectivity through the cellular network is at the heart of the next industrial revolution, where intelligent machines, systems and networks are capable of exchanging information to manage complete industrial production processes. In order to enable secure and reliable cellular connectivity for industrial environments, Infineon has developed the SLM 97 family of industrial-grade security controllers optimized for the operation in difficult environmental and usage conditions, providing robustness to keep connectivity up and running in every operational condition. The SLM 97 product family fully complies with the Embedded SIM (eUICC) specifications according to ETSI and GSMA, increasing flexibility and simplifying the deployment of new M2M solutions.

SLI 97 – Linking the Automotive and Telecommunications Worlds

In a connected car, the SIM is the linking element between the automotive and the telecommunication worlds. While automakers have a strong focus on meeting the highest quality levels, MNOs focus on protecting their security credentials against theft and cloning. In addition, the remote management capabilities of the Embedded SIM allow automakers to reduce logistic complexity and easily deploy new services for their customers during the vehicle's lifetime. Infineon answers to these challenging requirements with the SLI 97 product family, which is tailored to the automotive industry by supporting an extended temperature range, extended quality and AEC-Q100 qualification. The SLI 97 provides a set of hardware crypto-coprocessors supporting all relevant crypto schemes and is targeted for Common Criteria EAL 5+ High certification, making it a perfect solution for secure in-Car connectivity.

Features

- ARM® SecurCore® SC300™ enhanced by Infineon's Cache and Security Technology
- Up to 1MB SOLID FLASH™ allowing fast prototyping and short time-to-market
- Very high endurance NVM (500K) for best quality products
- Symmetric and asymmetric Crypto Processors
- ISO7816, SWP, USB, I2C, SPI
- CC EAL 5+ High

Key Features for M2M

- Extended temperature range: -40 to 105°C
- SLM 97: Industrial-Grade qualification (JEDEC)
- SLI 97: AEC-Q100 Qualification and PPAP documentation
- Extended quality gates and test scope to reduce failure rates
- Standard embedded M2M delivery form: MFF2
- Standard SIM card format with increased robustness: P-M2M4.7

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SLM 97/SLI 97 SOLID FLASH™

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Key Applications

Vehicle Telematics	**SLI 97** enables secure cellular connectivity for intelligent telematics to provide advanced **usage-based services** and to improve driver's safety in solutions such as **eCall**.
Industrial Production	**SLM 97** allows secure and reliable cellular connectivity between manufacturing equipment for the optimization and automation of **manufacturing processes**.
Smart Utilities	**SLM 97** and **SLI 97** are both well suitable for any M2M solution where security, endurance and reliability are key success factors, like smart meters, vending machines and asset tracking.

Product Overview

Sales Code [1]	SOLID FLASH™ [kB]	Cryptography	Interfaces	Typical Applications
SLM 97C(N)FxxxxPE	608/800/1024	–	ISO7816 (SWP)	Industrial M2M
SLM 97C(N)FXxxxxPE	608/800/1024	Yes	ISO7816 (SWP)	
SLM 97C(N)UFXxxxxPE	608/800/1024	Yes	ISO7816 (SWP), USB	
SLM 97CI(N)FXxxxxPE	608/800/1024	Yes	ISO7816 (SWP), I^2C	
SLM 97CSI(N)FXxxxxPE	800/1024	Yes	ISO7816 (SWP), I^2C, SPI	
SLI 97C(N)FxxxxPE	608/800/1024	–	ISO7816 (SWP)	eCall Connected Cars eHealth
SLI 97C(N)FXxxxxPE	608/800/1024	Yes	ISO7816 (SWP)	
SLI 97C(N)UFXxxxxPE	608/800/1024	Yes	ISO7816 (SWP), USB	
SLI 97CI(N)FXxxxxPE	608/800/1024	Yes	ISO7816 (SWP), I^2C	
SLI 97CSI(N)FXxxxxPE	800/1024	Yes	ISO7816 (SWP), I^2C, SPI	Vehicle-to-Vehicle

1) Example of derivatives

SLM 97


Bare Die


M2M4.7


MFF2


VQFN-32

SLI 97


MFF2


VQFN-32

For other SLM 97 and SLI 97 derivatives, further information on technology, delivery forms and conditions please contact your nearest Infineon Technologies sales representative.

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