



## Product Brief

# SLE 97 SOLID FLASH™ Family

## High Performance for your NFC Secure Element

The SLE 97 SOLID FLASH™ Family is the Infineon's state-of-the-art 32-bit product generation, for high performance security chip cards. It comes in various form factors addressing all kinds of NFC secure elements.

### 25% More Performance than Standard SC300™ Products

The SLE 97 products are the first products to benefit from the collaboration between Infineon and ARM® in the field of controllers for chipcard and security applications. They implement a unique 32-bit CPU based on the ARM® SecurCore™ SC300™ enhanced by Infineon's cache and security technology.

### Up to 1.5MB Storage for your NFC Secure Element

Thanks to the code density offered by the ARM® architecture, it provides easily more than 1MB for the NFC applications, and supports in long term the wide deployment of NFC in the market field.

### Available in Smallest SIM and Embedded Form Factors

With their optimized footprint, the SLE 97 products are able to support smallest SIM form factors, such as 3FF and 4FF, using the Infineon's FlipChip Technology (FCOS™). They are also proposed in wafer level package for embedded solutions with a minimal footprint.

### Applications

- NFC SIM/UICC
- NFC embedded secure element
- CIPURSE™ for mobile



### NFC-Tuned Features

- ARM® SecurCore™ SC300™ enhanced by Infineon's cache and security technology
- Up to 1.5MB SOLID FLASH™ allowing fast prototyping and short time-to-market
- Very high endurance NVM (500K) for best quality products
- Crypto processor for RSA and elliptic curves calculations
- Crypto processor for AES, (3)DES calculations
- True random number generator
- ISO 7816 up to 1.25Mbaud
- Inter-chip / full speed USB up to 12Mbit/s
- SPI, I<sup>2</sup>C, GPIOs

### NFC-Tuned Features

- Single Wire Protocol (SWP) interface up to 1.7Mbit/s
- Mifare compatible interface
- CIPURSE™
- NFC battery-off mode

### Certification

- CC EAL 5+ high
- EMVCo

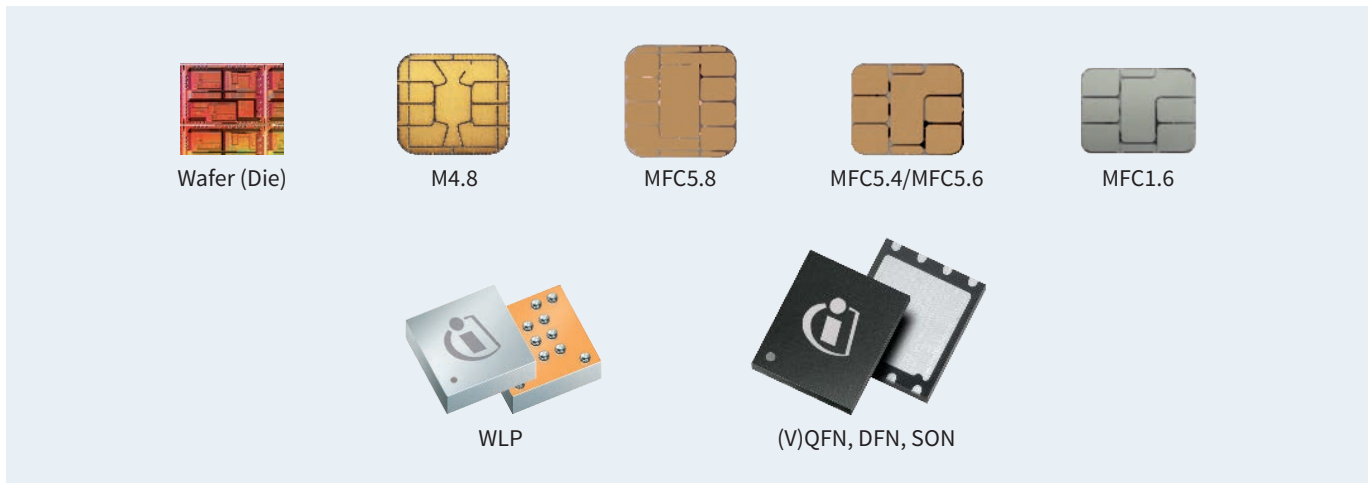
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### Product Table Summary

Sales Code	SOLID FLASH™ [kB]	Interfaces	Type of NFC SE
SLE 97CNFX1M50PE	1544	ISO7816, SWP	NFC SIM/UICC NFC Embedded UICC
SLE 97CNFX1M30PE	1280		
SLE 97CNFX1M00PE	1024		
SLE 97CNFX8000PE	800		
SLE 97CSNFX1M50PE	1544	ISO7816, SWP, SPI	
SLE 97CSNFX1M30PE	1280		
SLE 97CSNFX1M00PE	1024		
SLE 97CSNFX8000PE	800		
SLE 97CNFX1M54PE	1544	ISO7816, SWP	NFC Embedded SE
SLE 97CNFX1M34PE	1280		
SLE 97CNFX1M04PE	1024		
SLE 97CNFX8004PE	800		
SLE 97CSNFX1M54PE	1544	ISO7816, SWP, SPI	
SLE 97CSNFX1M34PE	1280		
SLE 97CSNFX1M04PE	1024		
SLE 97CSNFX8004PE	800		

Possible availability in wafer, bare die, flip chip and wire bonded modules, SMD and Wafer Level packages.  
For details, please contact our local sales representatives.



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