

Safety has relied on Infineon Flash for years – What about Security?

SOLID FLASH™

Combining the advantages of flash with Infineon's unique high security expertise!

In terms of memory concept Infineon phases over its offer of Smart Card ICs from Mask ROM to Flash-based products. Being absolutely convinced of the numerous advantages coming along with this flexible NVM memory concept, Infineon designs its new security controllers based on its SOLID FLASH™ technology.

Infineon is looking back on a long history and a more than 15 years experience with Flash, which differs from ordinary consumer Flash by its highest quality and reliability.

Infineon's Flash-based products have been used in many critical Automotive applications (e.g. Airbag, Braking) for years. Combining this experience with its high security expertise, Infineon developed the SOLID FLASH™ concept, which offers the required reliability and security needed even for high security Smart Card applications like Payment, Government ID, Transport, Pay-TV and high-end Mobile Communication.

Overview SOLID FLASH™

Advantages of SOLID FLASH™

Flexibility in **Logistics Chain** leads to

- Reduction of complexity and risks in the forecast and planning process
- Reduction of inventory and inventory risks
- Faster reaction to market changes through short lead times and flexible product usage

Flexibility in **Development** leads to

- Fast prototyping and learning cycles through immediate availability of hardware samples
- Improved time-to-market

Security Concept of SOLID FLASH™

Architectural Security

- Memory encryption
- Memory management
- Fault detection

Functional Security

- Secure mask transfer
- Secure download
- Locking mechanism



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Product Summary

Product	Code/Data Memory  SOLID FLASH™ [kB]	RAM [kB]	Cryptography	Interfaces	Target Application
SLE 77CF800S	80	4	DES	ISO 7816	EMVCo SDA Payment, Basic ID
SLE 77CF1000S	100	4	DES	ISO 7816	EMVCo SDA Payment, Basic ID
SLE 77CF1200S	120	4	DES	ISO 7816	EMVCo SDA Payment, Basic ID
SLE 77CFX1360P	136	6	DES, AES, RSA, ECC	ISO 7816	EMVCo DDA Payment, Basic ID
SLE 77CFX1560P	156	6	DES, AES, RSA, ECC	ISO 7816	EMVCo DDA Payment, Basic ID
SLE 77CFX1840P	184	6	DES, AES, RSA, ECC	ISO 7816	EMVCo DDA Payment, Basic ID
SLE 77CFX2000P	200	6	DES, AES, RSA, ECC	ISO 7816	EMVCo DDA Payment, Basic ID
SLE 77CFX2400P	240	6	DES, AES, RSA, ECC	ISO 7816	EMVCo DDA Payment, Basic ID
SLE 77CLFX1360P	136	6	DES, AES, RSA, ECC	ISO 7816 ISO 14443	EMVCo DDA Payment, Transport, Basic ID
SLE 77CLFX1560P	156	6	DES, AES, RSA, ECC	ISO 7816 ISO 14443	EMVCo DDA Payment, Transport, Basic ID
SLE 77CLFX1840P	184	6	DES, AES, RSA, ECC	ISO 7816 ISO 14443	EMVCo DDA Payment, Transport, Basic ID
SLE 77CLFX2000P	200	6	DES, AES, RSA, ECC	ISO 7816 ISO 14443	EMVCo DDA Payment, Transport, Basic ID
SLE 77CLFX2400P	240	6	DES, AES, RSA, ECC	ISO 7816 ISO 14443	EMVCo DDA Payment, Transport, Basic ID
SLE 78CFX1600P	160	8	DES, AES, RSA, ECC	ISO 7816	EMVCo DDA Payment, Government ID
SLE 78CLFX1600P	160	8	DES, AES, RSA, ECC	ISO 7816 ISO 14443	EMVCo DDA Payment, Government ID



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