TEGRION™ SLC26PDx360N9

SOLID FLASH™

Description

- The TEGRION™ SLC26PDx360N9 is a high-performance, powerful 32-bit Arm® dual-interface security crypto controller fully compatible with the Arm ® v8-M instruction set including the Main Extension and Security Extension, referred to as Arm TrustZone for Arm ® v8-M
- SOLID FLASH™ NVM Technology with strong IP protection and EEPROM emulation support
- Integrity Guard 32 security concept
- Strong integrity support by mathematically modelled techniques
- Strong confidentiality support by sophisticated cryptographic techniques, including extensive protection for the memory, caches, buses and registers
- High speed coprocessor for symmetric and asymmetric cryptography with certified symmetric library (AES and 3-DES), certified asymmetric library (RSA and ECC)
- Random Number Generator (RNG) supporting true random number generation to fulfil the quality criteria of the BSI AIS20/31 for the functionality class PTG.2 and PTG.3
- Family concept for the TEGRION™ SLC26PDx360N9 and TEGRION™ SLC27PDx products saves development effort across all security applications
- Support of CL protocols: ISO/IEC 14443 Type A/B with HBR and optionally NRG™ (ISO/IEC 14443-3 type A with CRYPTO1)

Features

- Up to 360 kByte SOLID FLASH™ NVM and 20 KB RAM and 4 KB instruction cache, 1 KB data cache
- 32-bit Arm® v8-M Mainline extended by the Arm TrustZone
- Supported interfaces: UART, ISO/IEC 7816, ISO/IEC 14443 A/ B and HBR
- Cryptographic support: RNG, RSA, ECC, AES, 3-DES
- Standard operating temperature (ambient) -25°C to +85°C
- Certification level: CC EAL6+ and EMVCo

Applications

- EMV CDA and DDA for contactless payment
- Global Platform / Java Card / Native
- ePurse
- New form factors like passive wearables devices

Parametrics

Product name	TEGRION™ SLC26PDx360N9
Product description	Dual-interface and contactless security crypto controller Unique input capacitance 56pF for all delivery forms TEGRION™ SLC26PDx[1]360N9: [1]L with NRG; [1]A no NRG
Interfaces and protocols	ISO/IEC 7816, ISO/IEC 14443 Type A/B with HBR, ISO/IEC 18092 (NFC passive mode) Optionally NRG™ (ISO/IEC 14443-3 type A with CRYPTO1)
Memory	Up to 360 kByte SOLID FLASH™ NVM and 20 kByte RAM 4 KB instruction cache, 1 KB data cache
Symmetrical cryptography	DES, 3DES, AES
Asymmetrical cryptography	RSA up to a bit length of 4096, ECC up to a bit length of 521
Ambient temperature	-25°C to +85°C
Delivery forms	Wafer sawn, Dual-interface module COM 6 PIN (COM8.4[2]), MCC8 [2] Dual interface module for inductive coupling
Typical applications	EMV DDA, EMV CDA, Global Platform / Java, ePurse, new form factors like passive wearables devices
Certification level	CC EAL6+: Certification BSI-DSZ-CC-1229; certification identifier IFX_CCI_0000 $7D_H$ EMVCo: IFX_ECI_75h[$1E_1F_H$]

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

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