SLC36PDx352
Short Product Overview

SLC36PDx352

SOLID FLASH™

Description

- High-Performance, powerful 32-bit Arm® SecurCore® SC300 dual-interface security crypto controller enhanced by Infineon's cache and security technology
- SOLID FLASH™ NVM Technology with strong IP protection and EEPROM emulation support
- Digital Security concept. High speed coprocessor for symmetric and asymmetric cryptography with certified symmetric library (AES and 3-DES) and certified asymmetric library (RSA and ECC) and also SM4.
- Hybrid-Random Number Generator according to AIS.31 with physical noise source and built-in cryptographic post-processing (supporting the functionality classes DRG.2, DRG.3, DRG.4, PTG.2 and PTG.3)
- Memory Protection Unit, which controls access permissions to blocks of memory
- Family concept for SLC36PD products saves development effort
- Full coverage of CL protocols: compliant with ISO/IEC 14443 Type A and B, interoperable with ISO/IEC 18092 passive mode for Type F and NFC and also supporting CIPURSE™ and optionally NRG™ (ISO/IEC 14443-3 type A with CRYPTO1) (option)

Features

- 352 kByte SOLID FLASH™ NVM
- 12 KB RAM
- 32-bit Arm® SecurCore® SC300
- Supported interfaces: UART, GPIO, ISO/IEC 7816, ISO/IEC 14443 A/B, ISO/IEC 18092 passive mode
- Cryptographic support: HRNG, RSA, ECC, AES, 3-DES, SM4
- Standard operating temperature (ambient) -25°C to +85°C
- Targeted certification level: EMVCo, CC EAL6+, CUP
- Java Card S operating system based on Java Card operating system

Applications

- EMV CDA / DDA / SDA (online)
- Global Platform / Java Card / Native
- ePurse, eSignature
- New form factors like passive wearables devices

Parametrics

Product name	SLC36PDx352
Product description	Dual-interface and contactless security crypto controller SLC36PDx[1]352: [1]L with NRG; A no NRG
Interfaces	ISO/IEC 7816; ISO/IEC 14443 for both type A and/or type B; ISO/IEC 18092 passive mode
Memory	352 kByte SOLID FLASH™ NVM 12 Kbyte RAM
CPU	32-bit Arm® SecurCore® SC300
Symmetrical cryptography	DES, 3DES, AES up to 256-bit
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	Dual-interface modules, Contactless modules, Wafer sawn
Typical applications	EMV DDA, EMV CDA, Global Platform / Java, Loyalty, ePurse, eSignature, new form factors like passive wearables devices
Targeted certification level	EMVCo, CC EAL6+, CUP

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

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