

SLE 78CX360P

16-bit Security Controller with "Integrity Guard", optimized for Payment and Identification applications in 0.13 µm CMOS technology 36 kBytes E²PROM, 224 kBytes User ROM, 8 kBytes RAM

Crypto@2304T engine
with register lengths of up to 2304 bits, certified RSA and ECC libraries
Symmetric Crypto Processor (SCP)
Triple-key-triple-DES and AES acceleration

Short Product Overview

May 2010

Chip Card & Security



SLE 78CX360P Short Product Overview		Ref.: Chip_Card_Product_Overview_11/09
Revision History: Current Version 05.10		
Previous Releases:		
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Important: Further information is confidential and on request. Please contact:

Infineon Technologies AG in Munich, Germany,

Chip Card & Security

E-Mail: security.chipcard.ics@infineon.com

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Product name	SLE 78CX360P Secure µSlim EEPROM
Product description	Security cryptocontroller designed for high-security applications
User-ROM	224 kByte
EEPROM	36 kByte
RAM	8 kByte
CPU	Dual 16-bit
Crypto coprocessors	
Symmetrical Cryptography	3DES, AES up to 256 bit
Asymmetrical Cryptography	RSA up to 4096 bit, ECC up to 521 bit
Clock (int.)	1 - 33 MHz
Clock (ext.)	1-10MHz
Operating voltage	1.62 V - 5.5 V
Max. supply current (at 5 MHz, 5 V)	10 mA
Max. sleep mode current (typical)	100 μΑ
Ambient temperature	-25 to +85°
Write / erase time	< 2.3 ms
EEPROM page programming	1 to 128 Byte
Security features	Integrity Guard Security System: Digital Full Error/Fault/ DFA Detection; Full CPU-, Memory-, Bus- and Cache-Encryption; Dual encrypted-calculation CPU; Active I2-Shield; MMU with Level Concept; DPA/SPA, DEMA/SEMA Countermeasures; Threshold Sensors: V, F, Light, Temperature; Intelligent Watchdog with Program Flow Check; Tamperproof Design; Chip ID; True RNG (AIS31, FIPS-140)
Peripherals	ICU/PEC, CRC, PLL, UART DF 8
Delivery forms	Module M5.1, MFC5.x, DSO-8, VQFN-8, die
Typical applications	Payment, EMV DDA, ePurse, Loyalty, Access Contol, Health / Social Security, Digital Signature, ID-Card
Certifications	CC EAL5+ high, EMVCo

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SLE 78CX360P MFC5.6 SLE 78CX360P MFC5.8