SLS 32TLC100(M)
Short Product Overview

CIPURSE™Security Controller SLS 32TLC100(M)

Description

The CIPURSE™Security Controller is a dedicated contactless security controller for cost optimized tickets and cards in transport ticketing multi-applications. It is featuring the CIPURSE™T profile and is compliant to the OSPT™ Alliance CIPURSE™V2 specification. The Open Standard CIPURSE™V2 provides interoperability and easy integration of CIPURSE™V2 compliant products.
The CIPURSE™Security Controller incorporates the CIPURSE™V2 security architecture and is compliant to the CIPURSE™V2 cryptographic protocol specification using AES-128, augmented by a combination of hardware and software security measures. Commands and transmitted data can be secured using the CIPURSE™V2 cryptographic protocol which is inherently resistant against physical attacks like DPA and DFA. A typical CIPURSE™ secured transaction will take less than 100 ms.
On top, 1 kByte or 4 kByte NRG™ (ISO/IEC 14443-3 type A with CRYPTO1) emulation for legacy systems and NFC Forum Type 4 Tag operation for NFC applications can be supported.
CIPURSE™Security Controller is the ideal product to support migration from existing none security or NRG™ (ISO/IEC 14443-3 type A with CRYPTO1) legacy systems towards a more advanced and state-of-the-art security architecture like CIPURSE™.

Features

- Compliant to CIPURSE™T Profile Specification Revision 2.0
  - 8 and 16 applications (ADF) configurable
  - 4 and 8 PxSE ADF configurable
- 8 kByte user memory for application data
- Optional support of 1 kByte or 4 kByte NRG™ (ISO/IEC 14443-3 type A with CRYPTO1) emulation
- NFC Forum Type 4 Tag configurable
- Contactless interface ISO/IEC 14443 Type A
- CC EAL 5+ (high)

Applications

- Weekly or seasonal cards for Automatic Fare Collection (AFC)
- Event ticketing
- Access Control
- Micropayment

Parametrics

Product name	CIPURSE™Security Controller - SLS 32TLC100(M)
Product description	Contactless Security Controller with featuring the CIPURSE™T profile and is compliant to the OSPT™ Alliance CIPURSE™V2 specification
Interfaces	ISO/IEC 14443 Type A, Optional NRG™ (ISO/IEC 14443-3 type A with CRYPTO1) interface
Memory	8 kByte user memory for application data storage
CPU	16-bit
Symmetrical cryptography	Mutual authentication using AES 128
Ambient temperature	Operating temperature range: -25°C to +85°C Storage temperature range: -25°C to +125°C
System features	CIPURSE™T Profile compliant Security Controller Secured communication using AES 128 and session key derivation 16 applications (ADF) configurable CIPURSE™ certified
Delivery forms	Sawn wafer 75 or 150 µm NiAu bump 20 µm MCC8-2-6
Typical applications	Weekly or seasonal cards for Automatic Fare Collection (AFC) Event ticketing, Access Control, Micropayment
Certification level	CC EAL5+ high Robust protection against potential security attacks CIPURSE™V2 certified NFC Tag device Type 4A Tag certified

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

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