

CIPURSE™SAM

SLF 9630



Short Product Overview

Features

- Enables secured authentication between a reader and CIPURSE™ smart cards using AES-128 based authentication schemes or cards using NRG (ISO/IEC 14443-3 type A with CRYPTO1) technology
- Dedicated key management system including key derivation and key upload
- Online and Offline modes
- Secured key loading
- Compliant to OSPT™ Alliance CIPURSE™V2 SAM Specification Revision 1.0
 - Supporting CIPURSE™V2 Revision 2.0 CIPURSE™T, CIPURSE™S, CIPURSE™L profiles
 - Up to 8 SAM applications (ADF) configurable
- Unique chip identification number for each chip
- Operating temperature range: -25°C to +85°C
- Storage temperature range: -40°C to +125°C
- ESD protection larger than 2 kV (HBM); 4 kV for ISO/IEC 7816 and USB pads
- Power-saving sleep mode

Applications

- CIPURSE™ SAM Application
- NRG (ISO/IEC 14443-3 type A with CRYPTO1) SAM Application
- Generic Crypto Application

Description

The CIPURSE™SAM is a dedicated high-performance 16-bit Security Controller with “Integrity Guard” that provides CIPURSE™ Secure Access Module (SAM) functionality for use in Automatic Fare Collection (AFC) systems, Access Control systems and other smart card security applications. Further, the CIPURSE™SAM can be used to communicate with NRG (ISO/IEC 14443-3 type A with CRYPTO1) 1kByte and 4 kByte smart cards.

Product name	CIPURSE™SAM - SLF 9630
Product description	The CIPURSE™SAM is a dedicated high-performance 16-bit Security Controller with “Integrity Guard” that provides CIPURSE™ and NRG SAM functionality for use in Automatic Fare Collection (AFC) systems, Access Control systems and other smart card security applications
Interfaces	ISO/IEC 7816 Contact-based interface
CPU	16-bit
Symmetrical cryptography	AES-128, AES 192, AES 256 and DES, 3DES
Ambient temperature	Operating temperature range: -25°C to +85°C Storage temperature range: -40°C to +125°C
System Features	Secure storage of keys in hardware Secure mutual authentication and communication Supports the personalization and operation of CIPURSE™ and NRG smart card products
Delivery forms	ID-1/ID-000 Chip Card with SIM Module VQFN-8-4 VQFN-32-13
Typical applications	Transport ticketing, Access Control systems, Automatic Fare Collection (AFC) systems and other smart card security applications
Certification level	CC EAL 6+ high CIPURSE™ V2 certification

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

¹⁾ (ISO/IEC 14443-3 type A with CRYPTO1)

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