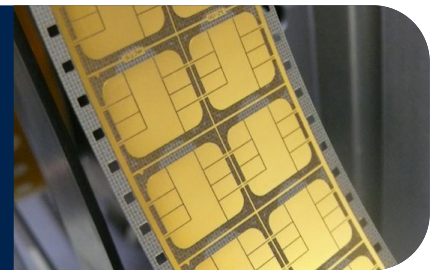


KONA 141S



KONA 141S is a member of the KONA™ card Platform family.

KONA 141S is perfect for the use of EMV. In addition, it supports all features of Java card except applet load/delete, remote method invocation and garbage collecting.



PRODUCT FEATURES

KONA 141S is a Java Static and dual interface chip which has 12 Kbytes EEPROM. It supports "Dynamic Data Authentication" (DDA).

General Features

- JavaCard 2.2.1
- GlobalPlatform Card Specification 2.1.1
- VISA GlobalPlatform 2.1.1 Card with Configuration 2
- Data Encryption Standard (DES) and Dual/Triple key DES3 via co-processor
- Data Encryption Standard RSA via co-processor
- Contact interface with T = 0 (Default) and T = 1 protocols according to ISO/IEC 7816-3
- Contactless interface with T = CL (TypeA) protocol according to ISO/IEC 14443
- Contactless interface with MIFARE® RF protocols according to ISO/IEC 14443-2

H/W Features

- Chip Model: NXP
- ROM: 200 Kbytes
- EEPROM: 12 Kbytes (Mifare emulation 1K)
- RAM: 6 Kbytes
- Operating Temperature: -25°C ~ 85°C
- Operating Voltage: 1.62V ~ 5.5V

Applets

- VSDC 2.7.1 (includes PSE 2.2)
- qVSDC
- PayPass M/Chip4 Select
- PPSE
- Mifare Access Applet
- Optional. (ATM, E-Book, Loyalty, E-Cash, etc.)

Certificate

- VISA Certified
- MasterCard Certificate in progress

PRODUCT DETAIL INFORMATION

Java Card Features

- Java Card S implementation of Java Card 2.2.1
- All features except following features not used in "Java Card S"
 - Applet Load/Install and Delete
 - Remote Method Invocation
 - Garbage Collection

Visa GlobalPlatform Features

- Visa GlobalPlatform 2.1.1
- Configuration 2 implementation
 - SCPO2 with implementation option '15'
 - EMV Level 1 requirements
 - Secure Channel Protocol (SCP)
 - > By default SCPO2 is supported
 - > Optionally, SCPO1 can be selected

Security Features

- Cipher
 - DES_CBC: NOPAD, ISO9797_M1, ISO9797_M2
 - DES_ECB: NOPAD, ISO9797_M1, ISO9797_M2
 - RSA: NOPAD, PKCS1
 - SEED_CBC: NOPAD, NRPAD
 - SEED_ECB: NOPAD, NRPAD
- Signature
 - DES_MAC8: NOPAD, ISO9797_1_M2_ALG3, ISO9797_M1, ISO9797_M2
 - RSA_SHA: PKCS1, ISO9796
- Message Digest
 - MD5, SHA-1
- RSA Computation: Up to 2,048 bits

APPLICATION FIELDS

EMV Card

This product applies to Debit / Credit Card for EMV migrations. It can be used both for VISA and MasterCard. Also for Local EMV card programs.

Banking Card

When loaded with Banking applet such as ATM Applet or E-Book Applet, you can use this product in general banking applications with the security of EMV environment.

Loyalty Card

When you load the loyalty applet such as XLS applet from WRT, the chip can be used in loyalty card programs.

E-Cash Card

When you load E-Cash Applet in this product, it is applicable for an E-cash card which can purchase goods with replenishing value.

Transit Card

When you load Transit Applet (or E-Cash Applet) in this product, it is applicable for an E-cash card which can purchase goods by using a contact interface and also for a Transit Card in the AFC (Automatic Fare Collection) System for bus or subway by using a contactless interface.

Membership Card

When you load Membership Applet in this product, it is applicable for a general ID card and a membership card.

ONE CARD SUPPORTS MULTI-APPLICATION SERVICES IN VARIOUS WAYS:

Combination 1: EMV + ATM + Transit

Combination 2: ATM + Transit + Loyalty

Combination 3: Membership + E-Cash

Combination 4: E-Cash + Loyalty

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