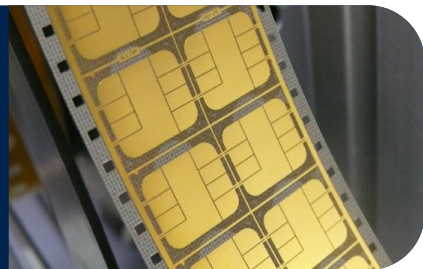


KONA 151S



KONA 151S is a member of the KONA™ card Platform family. **KONA 151S** is perfect for the use of EMV product by completing the certification from Visa and MasterCard. In addition, it supports all features of Java card except applet load/delete, remote method invocation and garbage collecting.



PRODUCT FEATURES

KONA 151S is a Java Static 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

H/W Features

- Chip Model: NXP
- ROM: 160 Kbytes
- EEPROM: 12 Kbytes
- RAM: 6 Kbytes
- Operating Temperature: -25°C ~ 85°C
- Operating Voltage: 1.62V ~ 5.5V

Applets

- VSDC 2.7.1 (includes PSE 2.2)
- M/Chip4 Select
- Optional. (ATM, E-Book, Loyalty, E-Cash, etc)

Certificate

- Visa Certified
- MasterCard Certified

PRODUCT DETAIL INFORMATION

Java Card Features

- 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 2,048bits

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.

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 + E-Cash
Combination 2: EMV + ATM + E-Book

Combination 3: ATM + E-Cash + Loyalty
Combination 4: Membership + E-Cash + Loyalty

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