

KONA 11



KONA 11 is a member of the KONA™ card Platform family.

KONA 11 is perfect for the use of EMV products by completing the certification from VISA & Master Card. In addition, multi application can be loaded for various value added services by using high capacity memory.



PRODUCT FEATURES

KONA 11 is a GlobalPlatform chip which has 72 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 3
- Data Encryption Standard (DES) and Dual/Triple key DES3 via co-processor
- PKI (Public Key Infrastructure) via co-processor for RSA
- 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: 72 Kbytes
- RAM: 4,608 Kbytes
- Operating Temperature: -25° C ~ 85° C
- Operating Voltage: 1.62 V ~ 5.5 V

Applets

- VSDC 2.5.1
- M/Chip4 Select
- PSE 2.2
- 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 including RMI, Multiple Logical Channels and Garbage Collection

Visa GlobalPlatform Features

- Visa GlobalPlatform 2.1.1
- Configuration 3 implementation
 - Public key DAP Verification
 - SCOPO2 with implementation option '15'
 - Global PIN via CVM interface
 - EMV Level 1 requirements
 - Delegated Management
 - Secure Channel Protocol (SCP)
 - > By default SCOPO2 is supported
 - > Optionally, SCP01 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
- RSA Key Generation
 - RSA_KEYPAIR (key length up to 2,048 bits)
 - RSA_CRT_KEYPAIR (key length 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 the E-Cash Applet in this product it is applicable for an E-Cash card which can purchase goods with replenishing value.

Government ID Card

When you load the ID Applet, E-Passport Applet or Health Care Applet in this product, it can be used for Government ID-Card, E-Passport Card or Health Card thanks to its high memory capacity and its high level of security.

PKI Card

When you load the PKI Applet in this product it is applicable for a PKI card connecting with PKI middleware since it supports PKI via co-processor for RSA.

Biometric Card

When you load the Biometric Applet which stores, manages and compares the information of a fingerprint in this product, it is applicable for a biometric card, an access control card or a high security card.

Membership Card

When you load the 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-Book + Loyalty
Combination 2: EMV + ATM + Membership + PKI
Combination 3: ATM + E-Book + PKI + Loyalty

Combination 4: ID + PKI + Biometric
Combination 5: E-Cash + PKI + Membership etc

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