

KONA 12



KONA 12 is a member of the KONA™ card Platform family. **KONA 12** 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 and dual interface.



PRODUCT FEATURES

KONA 12 is a GlobalPlatform and dual interface chip which has 36 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
- 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: 160 Kbytes
- EEPROM: 36 Kbytes
- RAM: 4,608 Kbytes
- Operating Temperature: -25°C ~ 85°C
- Operating Voltage: 1.62V ~ 5.5V

Applets

- VSDC 2.5.1 or VSDC 2.7.1
- PayPass M/Chip4 Select
- PSE 2.2
- Mifare Access Applet
- 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
 - SCPO2 with implementation option '15'
 - Global PIN via CVM interface
 - EMV Level 1 requirements
 - Delegated Management
 - Secure Channel Protocol (SCP)
 - > By default SCP02 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.

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 the Membership Applet in this product it is applicable for a general ID card and a membership card.

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.

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.

ETC Card

When you load the ETC (Electronic Toll Collection) Applet in this product, it is applicable for a payment card in the ETC system. It can be used in both ways; as a 'Touch & Go' and OBU since it is a dual interface card.

ONE CARD SUPPORTS MULTI-APPLICATION SERVICES IN VARIOUS WAYS:

Combination 1: EMV + ATM + Transit + Loyalty

Combination 2: EMV + ATM + ETC + Loya

Combination 3: ATM + E-Book +E-Cash + PKI

Combination 4: Membership + PKI + Biometric

Combination 5: ID + PKI + Biometric etc

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