KONA132

KONA132 is a member of the KONA™ Card Platform family.
KONA132 is perfect for the use of EMV. In addition, multi application can be loaded for various value added service by using high capacity memory.

Product Feature

KONA132 is a GlobalPlatform card 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

H/W Features

- ROM : 200 Kbytes
- EEPROM : 36 Kbytes
- RAM : 6 Kbytes
- Operating Temperature : -2.5C°~85C°
- 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.)

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
  - SCP02 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 2048 bits)
  - RSA_CRT_KEYPAIR (key length up to 2048bits)

Application fields

EMV Card
This product applies to Debit / Credit Card for EMV Migration since VSDC and M/Chip Applet are loaded and VISA and Master Card are certified. It can be used for not only VISA and Master but also Local EMV Card.

Banking Card
When loaded with Banking applet such as ATM Applet, E-Book Applet, you can use this product as applications for general banks and as a public card issuing with EMV Application.

Loyalty Card
When you load the loyalty applet such as XLS applet from WRT in this product, it is applicable for a loyalty card for being used in the loyalty service connecting with the loyalty system.

E-Cash
When you load E-Cash Applet in this product, it is applicable for a 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.

Government ID Card
E-Passport Card, Health Card
When you load ID Applet, E-Passport Applet or Health card Applet in this product, it is applicable for a Government ID Card, a E-Passport Card or a Health Card since it has 'high capacity memory' and 'high security'.

Biometric Card
When you load Biometric Applet which stores, manages and compares the information of a fingerprint in this product, it is applicable for a biometric card and it is also applicable for the controlling system of

PKI Card
When you load 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.

One card can support 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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