

KONA 23S



KONA 23S is a member of the KONA™ card Platform family.
KONA 23S is perfect for the use of EMV products by completing the certification from VISA & MasterCard.

KONA 23S is the Java Card S. It supports all features of Java Card 2.2.1 except applet load/delete, remote method invocation and garbage collecting.



PRODUCT FEATURES

KONA 23S is a Global Platform chip which has 8 Kbytes EEPROM. It supports "Static Data Authentication" (SDA).

General Features

- JavaCard 2.2.1
- GlobalPlatform Card Specification 2.1.1
- VISA GlobalPlatform 2.1.1 Card with Configuration 1
- Data Encryption Standard (DES)
- Contact interface with T=0 according to ISO 7816-3

H/W Features

- Chip model: Samsung Electronics
- ROM: 96 Kbytes
- EEPROM: 8 Kbytes
- RAM: 2 Kbytes
- Operating Temperature: -25° C ~ 85°C
- Operating Voltage: 1.62 V ~ 5.5 V

Applets

- VSDC 2.5.1
- M/Chip Lite
- PSE 2.2
- JCPIA
- 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 1 implementation
 - SCPO2 with implementation option '15'
 - EMV Level 1 requirements
 - 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
- Signature
 - MODE_SIGN and MODE_VERIFY of following algorithms are supported
 - DES_MAC8: NOPAD, ISO9797_1_M2_ALG3, ISO9797_M1, ISO9797_M2
- Key Builder
 - Following key types are supported
 - TYPE_DES
 - TYPE_DES_TRANSIENT_DESELECT
 - TYPE_DES_TRANSIENT_RESET

 - Following key types are supported
 - LENGTH_DES
 - LENGTH_DES3_2KEY

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.

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 SUPPORT MULTIAPPLICATION SERVICES IN VARIOUS WAYS:

Combination 1: EMV + ATM + Loyalty

Combination 2: ATM + E-Cash

Combination 3: Loyalty + Membership + E-Cash

Combination 4: ATM + E-Book + Membership

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