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Java Card Data Sheet

Feitian Technologies Co.Ltd



Feitian Technologies Co. Ltd.

Worldwide Security Services

Specializing in the Provision of the Industry's Most Stable Foundational Java Card Platform

Standards Based Operational Metric

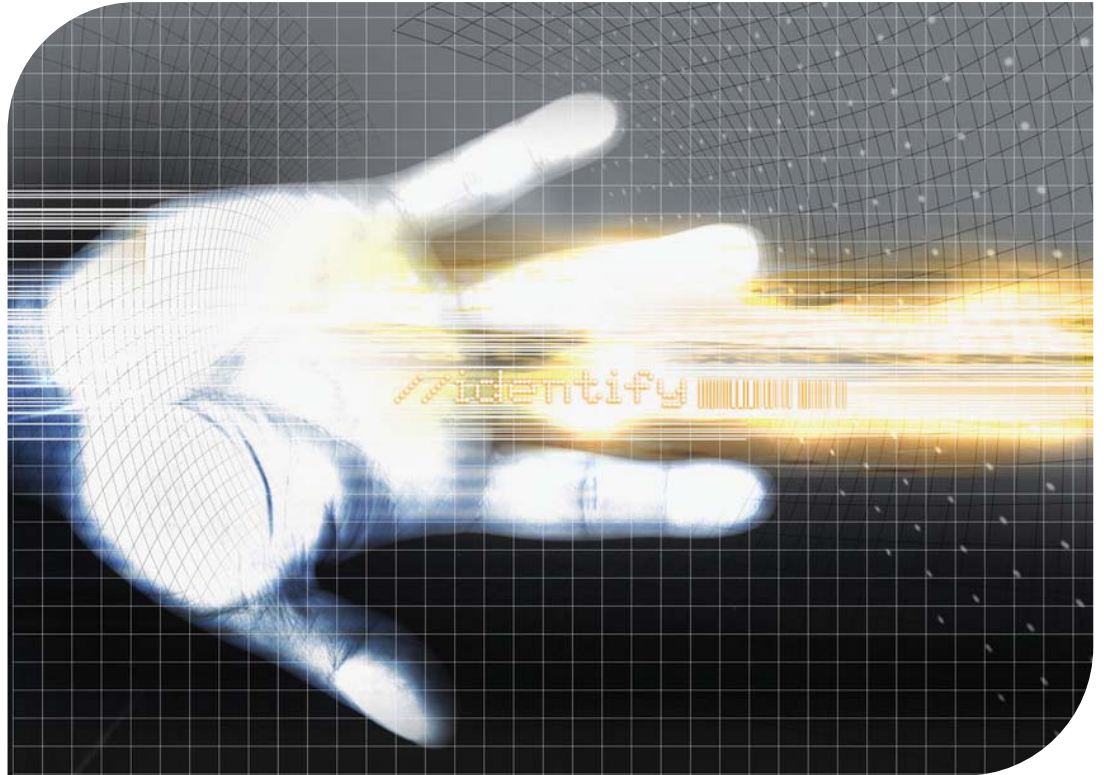
Feitian Technologies Java Card Operating System (FTJCOS), has been meticulously designed to conform to the strict standards of the Global Platform and ISO industry; thereby ensuring a fluidity and seamless interoperability of applications for card issuers as well as solutions developers. Through a focus on adhering to the essence of numerous heritage applications and not merely to the minimum requirements of the delineated standards themselves FT Java Card maintains compatibility with third-party applets as well as all existing smart card infrastructures. This practice facilitates multiple sourcing of the components within the smart card

solutions.

FT Java Card enables standard applications of a particular card issuer to be put into the ROM thereby significantly reducing the EEPROM requirements.

FT Java Card Platform's inherent flexibility enables users to customer tailor the solution to fit their specific needs, offering optional support for RSA coprocessor, contactless communications, and GSM mobile protocol features.

Create transparent blends between any of the FT Java Card versions and any set of applets into a unique need based smart card solution.

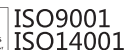


Feitian Java Card Product Specification

- ✓ Applied ✗ Not Support
 ○ Custom Made

Hardware Information	FT-Java/C21C	FT-Java/A11C	FT-Java/E11R	FT-Java/C12C
Free Data Space	400k	120k	57k	80k
Transient RAM Space	4k	3k	2.1k	2k
Common SRAM	18k	12k	8k	9k
Encryption or Common SRAM	2k	✗	2k	✗
HW DES/3DES Co-processor	✓	✓	✓	✓
HW AES Co-processor	✗	✓	✗	✗
HW RSA Co-processor	✓	✗	✓	✗

Standard & Interface	FT-Java/C21C	FT-Java/A11C	FT-Java/E11R	FT-Java/C12C
Contact (ISO 7816-1,2,3,4)	T=0/T=1	T=0/T=1	T=0/T=1	T=0/T=1
Contactless (ISO 14443-1,2,3,4)	X	X	Type A	X
Ext-APDU	✓	✓	✓	✓
Java Card™ 2.2.2	✓	✓	✓	✓
Global Platform 2.1.1	✓	✓	✓	✓
Mifare	X	X	X	X
Algorithm Support	FT-Java/C21C	FT-Java/A11C	FT-Java/E11R	FT-Java/C12C
RSA (512/1024/2048)	✓	X	✓	X
AES	✓	✓	✓	✓
SHA-1	✓	✓	✓	✓
SHA-256	✓	✓	✓	✓
MD5	✓	✓	✓	✓
DES/3DES (ECB,CBC)	✓	✓	✓	✓
KOREANSEEDKEY	✓	✓	✓	✓
ECC	○	X	X	X
Other Information	FT-Java/C21C	FT-Java/A11C	FT-Java/E11R	FT-Java/C12C
APDU Buffer Size	1024 bytes	1024 bytes	256 byte	256 byte
Java Stack	1KB	1KB	384 byte	384 byte
Garbage Collector	✓	✓	✓	✓
Applet deletion	✓	✓	✓	✓
Packages Max	64	64	32	32
Applets Max	48	48	16	16



The Feitian Java Card (FT Java Card) delivers unprecedented interoperability of applications



Java Authorized Licensees

Fundamentally based on international standards of smart card open source operating system specifications as endorsed by Sun Microsystems (Oracle), the GlobalPlatform consortium, the International Organization for Standardization (ISO), EMV, et. cetera. FTJ COS is available for licensing across the smart card value chain and across industries.



Preferential Optionality

FT Java Card users can custom tailor the solution to fit their specific needs, offering optional support for RSA coprocessor, contactless communications, and GSM protocol features.



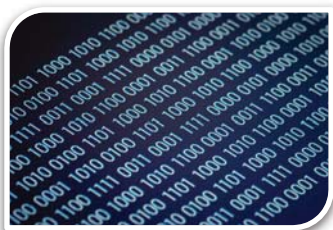
Cost Effective Pricing

FT Java Card and JCOS are effective solution for simpler low-cost implementations as well as the high-end of multi-controller configurations.



Cross Platform

The results of multiple cross-platform tests determine that FT Java Card consistently ranks higher in application performance than competitive Java Card implementations, including those implementations running on 32-bit platforms and proprietary cards.



Multiple Cryptography Solution

FT Java Card offers RSA 2048-bit length and the ability to generate RSA key components to the highest standard of card security. Security protocol hashing methods MD5 and SHA1 are available as well.

About Feitian

Since 1998 Feitian Technologies Co. Ltd is established itself as a leading innovator of the most advanced smart card and chip operating system security and application.

Feitian designs and develops its Java Card with best-of-breed applications, deployed in fields ranging from card payment, strong authentication, telecommunication, electronic identification and more.

Through close cooperation with leading global smart card chip providers Feitian delivers cutting edge technology to its expanding international sales and services network.

Feitian Technologies Co. Ltd

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