



# SMART CARD

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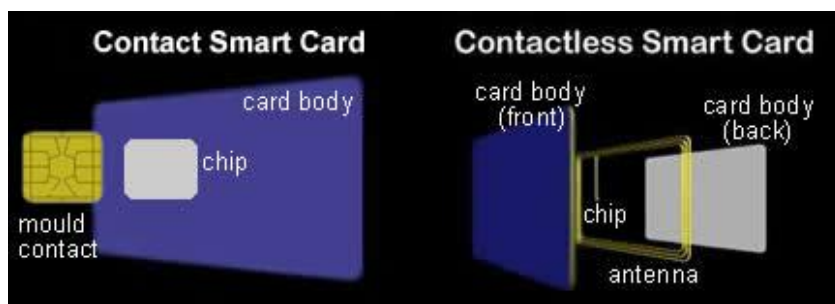
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UCARD SHENZHEN CHINA  
Just for convenient and fast life!

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Smart cards are split into contact smart cards and contactless smart cards.



Now let's get to know the smart catalogues and introductions:

### Contact Smart Cards

There are several varieties of contact smart cards available. The type suitable for your application depends on the amount of data you require to be held and the level of security needed.

Contact smart cards are split into two major categories: Memory and Microprocessor. Memory cards are like CDs; they hold data but are not intelligent devices. Microprocessor chips are like PCs as they hold data and are intelligent.

Brand	Type	According ISO	Memory	Voltage
ISSI	IS23SC4442	7816	256byte	2.7v~5.5v
	IS23SC4428	7816	1k byte	5v
Siemens/Infineon	SLE5542		256byte	5v
	SLE4428		1k byte	5v
	SLE4441		128byte	5v
	SLE4418		1k byte	5v
Atmel	AT24C01	7816-3	1k byte	5v
	AT24C02	7816-3	2k byte	5v
	AT24C04	7816-3	4k byte	5v
	AT24C08	7816-3	8k byte	5v
	AT24C16	7816-3	16kbyte	5v
	AT24C32	7816-3	32kbyte	5v
	AT24C64	7816-3	64k byte	5v
	AT88SC102		1k byte	5v
	AT88SC1604		16k byte	5v
	AT88SC1608		16k byte	5v

PIN Protected Memory Cards:

Applications include fuel cards, vending cards, loyalty applications, electronic coupons, subscriber's card, electronic purse, membership cards, utility prepayment, identity and variety of

protected portable data files.

Examples of these cards include:

SLE4442 - 256 Byte, Pin Protected Write

SLE4428 - 1K Byte, Pin Protected Write

#### Free Memory

Uses include non-confidential storage/low security applications, vending, transport, subscriber's card, portable data and identity.

#### Microprocessor Cards

The multi-application microprocessor card offers increased security for e-purse functions and a higher level of date management features along with EMV functionality if required. Card types provided by UCARD include the Gemalto cards, a full range of Banking and non-banking high security Microprocessor cards.

#### Java Cards

Java Card refers to a technology that allows small - based applications to be run securely on and similar small memory footprint devices. Multiple applications can be deployed on a single card, and new ones can be added to it even after it has been issued to the end user. Applications written in the Java programming language can be executed securely on cards from different manufacturers.



## Contactless Smart Cards

Contactless smart cards use radio frequency (RF) technology to interact with a reader. Each card has an antenna embedded inside the card that enables communication with the reader without physical contact.

The market for these cards is growing rapidly because of the obvious benefits of ease of use, speed and versatility. UCARD is well placed to help you source these products creating tremendous new opportunities for issuers.

Popular applications are not limited to but include public transport for fare payment, access control, cashless vending, parking, loyalty, electronic purse, gambling, road toll, student, employee IDs in government and corporate environments, e-passports and other secure travel documents, and cards for cashless payment.

UCARD can help with most of the varying classifications of RFID amongst the major silicon providers such as reader IC's from Atmel, EM Microelectronic, Infineon Technologies, LEGIC Identsystems, Microchip, Philips Semiconductors, STMicroelectronics. Classifications include:

Low Frequencies: below 150 kHz (read only):

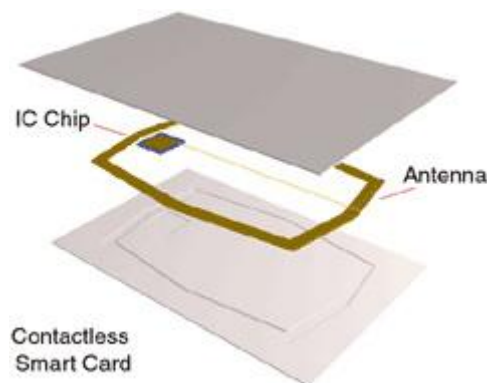
EM4102, HID, Hi-Tag etc

Smart Contactless Frequency: 13.56 MHz (Multi-Application technology):

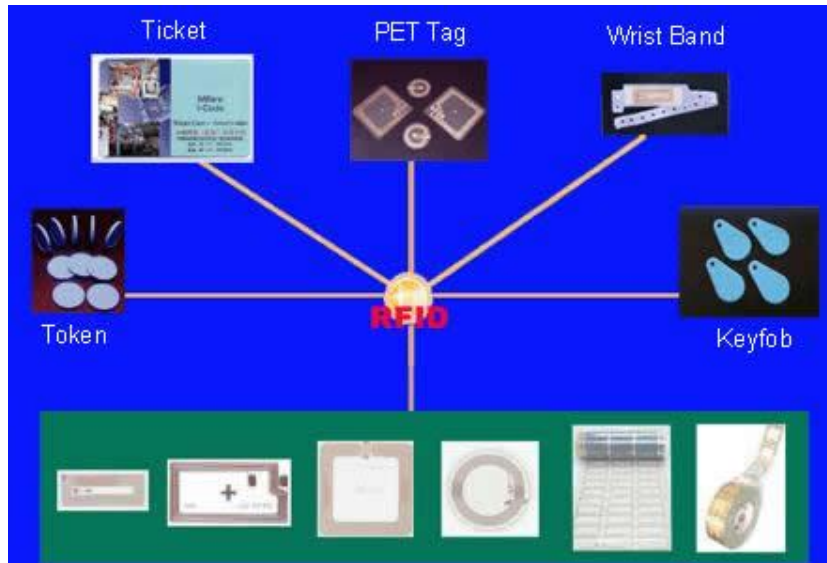
Mifare, Legic, Icode etc

Microwave Frequencies: 2.45GHz (Long reading distance):

EM4122, Ucode etc



Please contact us to discuss any of the products in more details including varying form factors (in addition to cards) such as modules, inlays, key-rings, and labels etc.



For Further information please check on the following:

Brand	Type	According ISO	Memory	Frequency
PHILIPS	Mifare 1K MF1 IC S50	14443A	1024byte	13.56MHz
	Mifare 4K MF1 IC S70	14443A	4096byte	13.56MHz
	I-Code 1 SL1 IC S30		64byte	13.56MHz
	I-Code SL2 IC S20	15693	128byte	13.56MHz
	Hitag 1 HT1 IC S30		256byte	125KHz
	Hitag 2 HT2 IC S20	11784/85	32byte	125KHz
	Hitag S HTS IC H32		4byte(read only)	125KHz
FUDAN	FM11RF08	14443A	1024byte	13.56MHz
EM	EM4034	15693	56byte	13.56MHz
	EM4100		64byte(read only)	125kHz
	EM4102		8byte(read only)	125kHz
	EM4135	15693,18000-3	288byte	13.56MHz
	EM4205		512byte	125KHz
	EM4305		512byte	125kHz

# UCARD Technology Limited

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We really hope that UCARD can be your excellent partners in China. Competitive price, good service, high quality, online work in process system, convenient logistics etc can help customers trace all the process and know well about the orders' status and manufacturing process, even we can guarantee the cards quality.

Also if you are interested in our products, please visit <http://www.ucard.biz> to find more details information or contact us [info@ucard.biz](mailto:info@ucard.biz) . Of course, welcome to visit our factory!

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