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SHENZHEN SEAORY TECHNOLOGY CO.,LTD.

SEAORY HEADQUARTERS

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BEIJING BRANCH

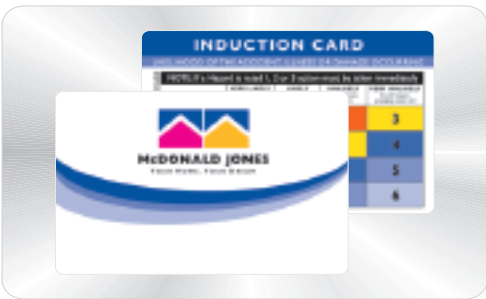
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EXCELLENT QUALITY PERFECT SERVICE





TRANSPORTATION

BANK

COMMUNICATION

EDUCATION

COMMERCIAL

INSURANCE

HOSPITAL

2010

2009

2008

2007

2005

2003

2002



PVC CARD

MAGNETIC STRIPE CARD

DIE-CUT CARD

MEMORY CARD

CPU CARD

DISPENSING CARD

KEYFOB



**We bring you the easiest and the most
convenient lifestyle anytime and anywhere.**





COMPANY BRIEF INTRODUCTION

SHENZHEN SEAORY TECHNOLOGY CO.,LTD is a hi-tech company which is specialized in smart card manufacturing, personalization card printer, smart card application system research & development & sales. Our head office is located in ShenZhen, We also have branch offices in Hong Kong, Beijing, Shanghai, and American.

Our main products are pvc card, magnetic strip card, contact Memory/CPU IC card, contactless Memory/CPU IC card and dual interface CPU IC card and so on. These products are made of PVC, PET, ABS etc materials and meet international ISO standard. Our productions are according with VISA, Mastercard, China Union ect international credit card group requirement, the cards are widely used in financial, transportation, postal, telecom, education, commercial, public affairs etc.

In personalization card printer line, we have our own brand SEAORY card printer. We are also the general agency of HITI in China and distributors of Datacard, DIS, Zebra, Evolis brand and so on.

We keep improving and innovating all the time. We are pursuing "high quality, perfect service" on the way of developing. We welcome the honest suggestion from you and hope to grow up with you day by day.

COMPANY DEVELOPMENT STEP

- 1.Our company was established in 2002 and had an office in Beijing in the same year.
- 2.Our factory for smart card was found in 2003.
- 3.We developed our customers rapidly and cooperated with many domestic banks and institutions during 2003-2005.
- 4.We set up overseas department in 2005, fully expanding our international market.
- 5.Our office in Beijing has been registered as a branch officially in 2006.
- 6.In order to enlarging our production line and improving our management, we moved to a new place in 2007.
- 7.Our company got ISO9001 certification and production license of industrial products in 2007.
- 8.Our Shanghai branch office was found in 2008, and we registered our branch office in Hong Kong.
- 9.We broke through in CPU card area in 2009, and got the relative certification.
- 10.We registered our Dongguan Theory Technology Co.Ltd in 2011, and built a new production location.
- 11.We moved to Dongguan new production building, enlarge production capacity 4 times than before.
12. Our own new brand SEAORY card printer is launched in the market successfully.

STANDARD CARD SIZE

Card size is comply with ISO7811, ISO7816 standard
Lenth: 85.47-85.72 mm
Width: 53.2-54.03 mm
Thickness:0.76mm±0.08mm

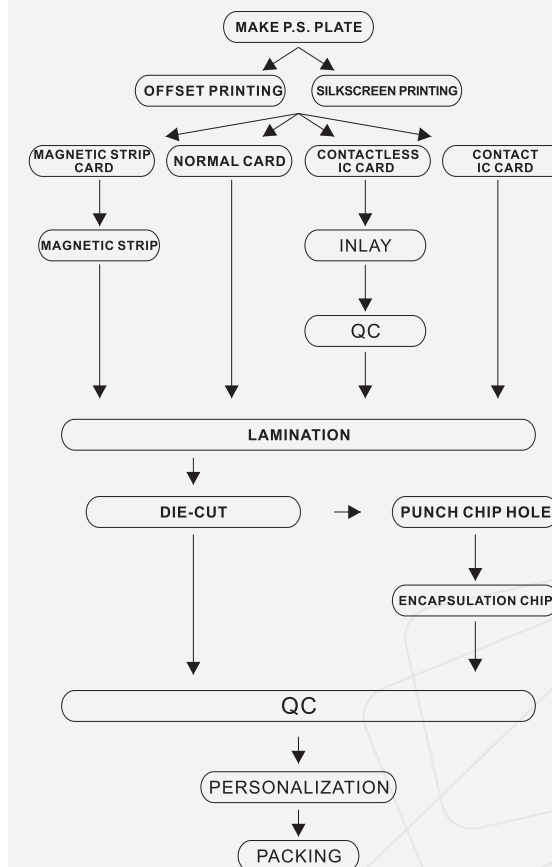
CARD FIELD OF APPLICATION

Financial, Transportation, Communication, Education, Hospital, Identification, Security, Commercial, Public affairs, Large scale enterprise.

MAIN PRODUCTS

PVC CARD
MAGNETIC STRIPE CARD
DIE-CUT CARD
MEMORY CARD
CPU CARD
DISPENSING CARD
KEYFOB

PRODUCTION PRODCEDURE





NORMAL PVC CARD

Card is made of pvc material with different auxiliary material.

Standard card size:

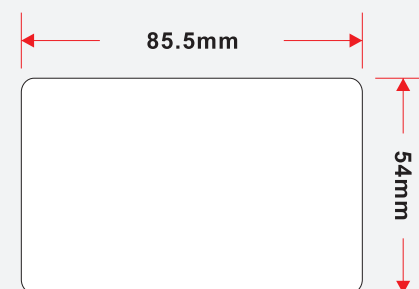
LENGTH: 85.47-85.72mm
WIDTH: 53.2-54.03 mm
THICKNESS: 0.76±0.08 mm

Normally personalization:

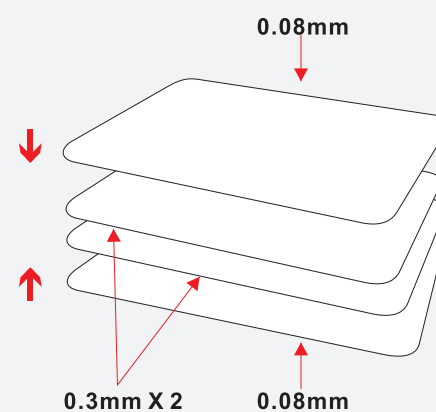
Barcode or number printing, inkjet printing and scratch off labeling, hotstamping etc.

Card field of application:

Telecom prepaid phone cards
supermart cash card
membership card



CARD SIZE



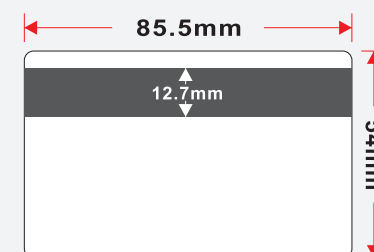
LAYOUT

MAGNETIC STRIP CARD

Card is made of pvc material with different auxiliary material and magnetic strip.

Standard card size:

LENGTH: 85.47-85.72mm
WIDTH: 53.2-54.03 mm
THICKNESS: 0.76±0.08 mm



Normally personalization:

Barcode or number printing, inkjet printing and scratch off labeling, hotstamping etc.

Card field of application:

Bank cards, supermartet cash card, membership card.

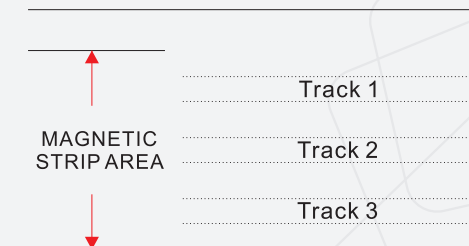
Magnetic strip card type

Loco strip:
With normal coercivity,
regualr range is about 300-650oe.

Hico strip:
With high coercivity, range is about 2750oe,
3500oe and 4000oe.

Strip track

3tracks on the strip,they can be read and encoded.
First track can encoded number 0-9, alphabet a-z and other symbol i.e ()-etc, the most can be encoded 79 digits totally.
2/3 track can only encoded numbers.
2nd track can be encoded the most 40 digits.
3rd track can be encoded most 107 digits.



Structure of magnetic strip



MEMORY CARD

Embedded chip on pvc card surface and put inlay between pvc.

Memory card types:

Proximity card
Contact IC card
Contactless IC card

Characteristic:

Intergrated circum is EEPROM which is with memory fuction, without data processing and security function.

Application:

Memory card is highly used in daily life

PROXIMITY CARD

Card size

Length: 85.47-85.72mm
Width: 53.2-54.03 mm
Thickness: 0.9mm/1.8mm

Chip type

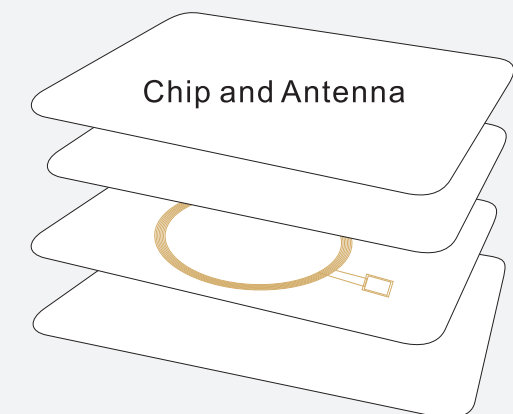
EM4100、TK4100

Characteristic:

Low voltage
Low capacity
Low rieable.

Application:

Community property management



LAYOUT OF PROXIMITY CARD

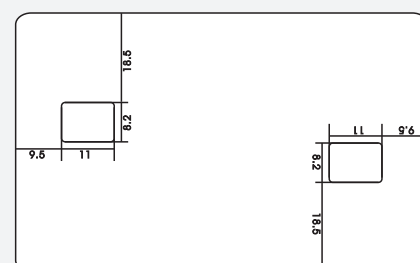


CONTACT IC CARD

Embedded chip basis on pvc card.

■ Card size

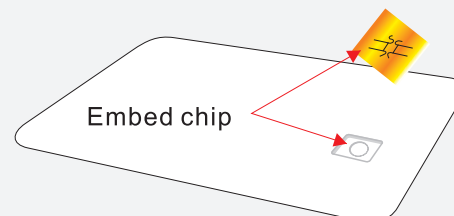
Length: 85.47-85.72mm
Width: 53.2-54.03 mm
Thickness: $0.81 \pm 0.03\text{mm}$



CONTACT IC CARD STRUCTURE

■ Chip type

SLE4442、SLE4428、SLE4404、
AT24C01、AT24C16、AT24C64



LAYOUT OF CONTACT IC CARD

■ Application:

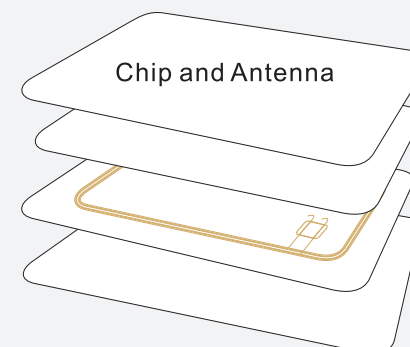
Hospital
Insurance.

CONTACTLESS IC CARD

Make inlay of chip and wire,
laminated with pvc material.

■ Card size

Length: 85.47-85.72mm
Width: 53.2-54.03 mm
Thickness: $0.86 \pm 0.03\text{mm}$



LAYOUT OF CONTACTLESS IC CARD

■ Chip type

Mifare1 S50、Mifare1 S70、
Mifare1 Ultralight

MEMEORY CARD KNOWLEDGE

■ Proximity card

Integrated circuit is EEPROM, which is
with memory funcation, without data
processing and security function.

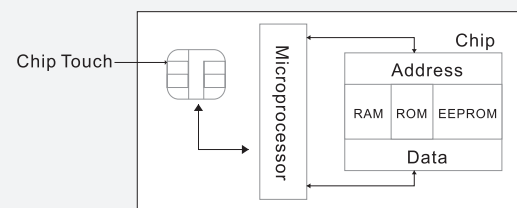
■ Contact/contactless IC card

Add cryptographic function logic circuit
function basis on memory card, which
protect data through password, but it
is only low security protection, not to
be alert against malicious attack.



CPU CARD

CPU card is also called microprocessor card or smart card, the intergrated circuit included CPU, EEPROM, RAM and fixed cos. It likes a micro computer without keyboard.



HARDWARE LAYOUT OF CPU CARD

Card type:

- Contact CPU card
- Contactless CPU card
- Dual Interface CPU card

- Contact CPU card:
Support iso/iec7816=0/1, comply with Gasoline filed IC standard, transportation IC card standard, social insurance IC card Stand, with des, 3des, rsa inside. 8k-64k EEPROM, with high secuiry fuction.

- Contactless CPU card:
Support iso/iec14443 type a/b, comply With the standard of construction field CPU card cos, and PBOC2.0 financial IC card standard, des, 3des,rsa inside, 8k-32k EEPROM, high security function.

- Dual Interface CPU card
Comply with contact and contacless CPU card Standard, JAVA card 2.2.1 standard, global Platform 2.2.1 standard, capacity: 8k-80k, Support mifare, bank security centre testing, Support des, 3des pin calculation, Support rsapkl, max 2048 bit.

FUNCTION

- Advantage:
CPU card can be used as bank cards, which present the highest security IC card, it is being a trend for the mainly products of IC card application.
- Normalization:
Comply with ISO7816-3 standard t=1,t=1.
- Compatible:
CPU card is with great compatible because of standard and strictly testing by bank.
- Security:
Double security with chip and cos, support des, 3des, support circuit encryption and protection, prevent telecomm uncation data is stolen and change illegally.

- Scalability:
Support different capacity EEPROM, i.e 2k, 4k, 8k, 16k, 32k byte, CPU card can be developed to different application, it can be used many fileds if cooperated with bank.

- Can be used offline:
CPU card is with cos which can finish in specting, data storage, it is no need to connect with centre server, the speed is faster and low processing cost.

CPU card application field

All purpose card, track traffic, toll collection of roads and bridges, access control, supermarket, gassoline station, employee card, student card.

To fultill different purpose by one card safety and effective.



TRANSPARENT CARD

Transparent card is made by transparent material.

FUNCTION:

The card surface is beautiful looks like crystal, it also is called crystal card, which is very popular card.

This card is with deep vision with 3D, with magnify and movement affect, it's different from traditional printing cards, barcode, chip and contactless chip can be put on the card.

APPLICATION:

Hotel VIP cards, sharon cards, VIP cards, wedding photograph VIP card, clothes store VIP card

DIE-CUT CARD

Standard card size is 85.5mm*54mm*0.76mm, the ones with different size and shape is called die-cut cards, it can be made into triangle, oval..etc different shape.

FUNCTION:

The craft is much complication, extra module charge is needed, the cost is much more than standard card.

APPLICATION:

Gift cards, exhibition ticket, exhibition show card, promotion card for shopping centre.

DISPENSING CARD

It is made by pvc material with crystal dispensing surface.

FUNCTION:

Defense dust, water, without bubble, clear as glass. 3d effect, stable, wirable. Supply different shape and personalization. Chip embeded can be acceptable.

APPLICATION:

Membership management
Point system
Consume system
All-purpose card payment
Production label
School management
Residence management
Access control
Identification system
Transportation
Parking sysem
Ski tickets

KEYFOB



NAME: ICBA KEY FOB \ IDAA KEY FOB
ITEM NO.: 00004752 \ 00004573
TYPE: mifare1 S50 \ TK4100, ABS, dark blue color, double hoops, 41×32×4.2mm.



NAME: ICAB KEY FOB \ IDAB KEY FOB
ITEM NO.: 00004753 \ 00004574
TYPE: mifare1 S50 \ TK4100, ABS, green color, double hoops, 41×32×4.2mm.



NAME: ICAC KEY FOB \ IDAC KEY FOB
ITEM NO.: 00004754 \ 00004589
TYPE: mifare1 S50 \ TK4100, ABS, black color, double hoops, 41×32×4.2mm.



NAME: ICAD KEY FOB \ IDAD KEY FOB
ITEM NO.: 00004755 \ 00004592
TYPE: mifare1 S50 \ TK4100, ABS, gray color, double hoops, 41×32×4.2mm.



NAME: ICBA KEY FOB \ IDBA KEY FOB
ITEM NO.: 00004756 \ 00004590
TYPE: mifare1 S50 \ TK4100, ABS, dark blue color, double hoops, 36×29×6mm.



NAME: ICBB KEY FOB \ IDBB KEY FOB
ITEM NO.: 00004757 \ 00004591
TYPE: mifare1 S50 \ TK4100, ABS, mahogany, double hoops, 36×29×6mm.



NAME: ICCB KEY FOB
ITEM NO.: 00005013
TYPE: mifare1 S50, ABS, yellow, double hoops, 52×33×6.3mm.



NAME: ICBA KEY FOB
ITEM NO.: 00005012
TYPE: mifare1 S50, ABS, dark blue color, double hoops, 52×33×6.3mm.