

EM4305 RFID Card-spec sheet



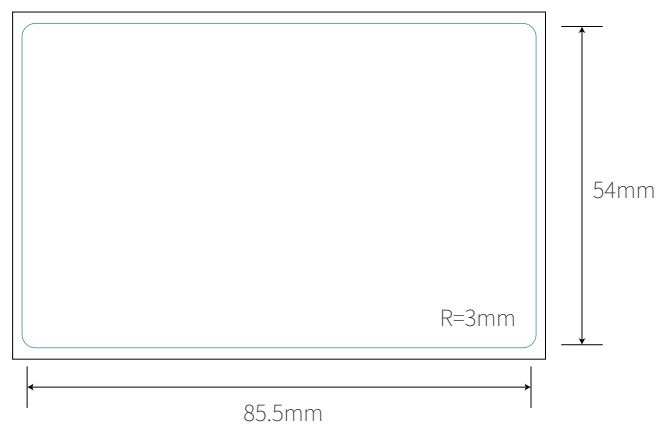
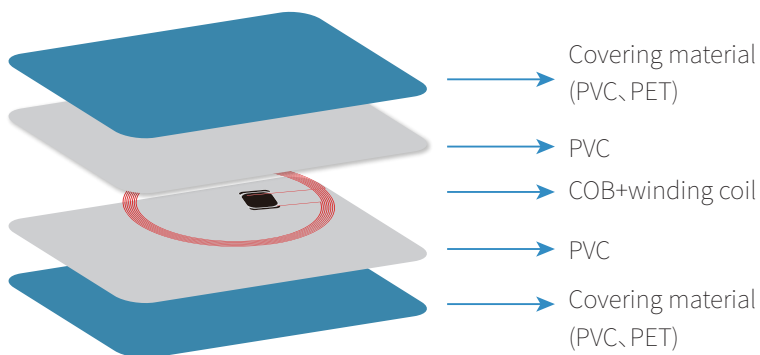
What is the EM4305 RFID Card? EM4305 RFID Card, otherwise known as EM4305 proximity card is a kind of common 125KHZ RFID card made of PVC or PET.

EM4305 RFID Card features 32-bit Password read and write protection, low power consumption, 512 bit EEPROM, no external supply buffer capacitor needed, and compatible with the EM4469/4569 family, etc. And it is very cheap and often used in low-cost applications that require tracking and identification, such as access control in campus, community, library, parking plot, etc.

Parameters

Item	EM4305 RFID Card	Color	Customizable	Working Temperature	-25°C to 65°C
Material	PVC、PET	Size	CR80 (85.5*54mm) or Custom	Data Retention Time	10 years
Chip	EM4305	Crafts Available	Logo or number printing, Bar code, QR code, etc.	Printing Options	Silk-screen printing, Laser Engraving, CMYK full color, Pantone, etc.
Frequency	125 kHz	Reading Distance	0-10m		
Protocol	ISO18000-2	Write Endurance	100000 times		

Dimensional Diagram



Available chips

LF 125kHz Chips

Chip Name	Protocol	Capacity	Frequency
TK4100	ISO 11784/11785	64 bits	125 kHz
EM4200	ISO 11784/11785	128 bits	125 kHz
EM4305	ISO 11784/11785	512 bits	125 kHz
T5577	ISO 11784/11785	330 bits	125 kHz

Features

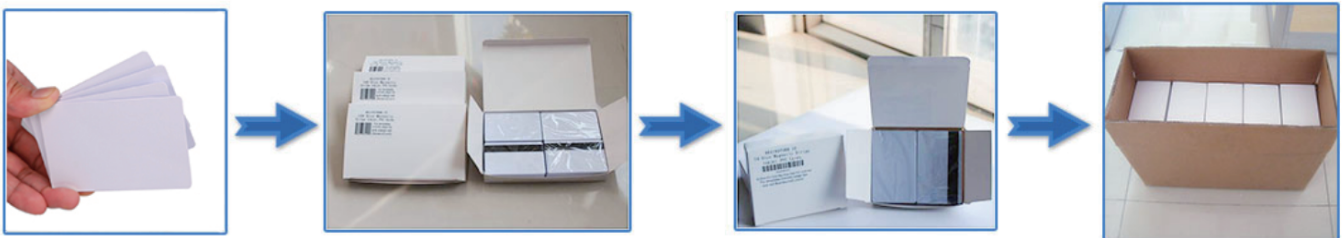
- ▶ 512 bit EEPROM organized in 16 words of 32 bit
- ▶ 32 bit unique identifier (UID)
- ▶ 32 bit Password read and write protection
- ▶ ISO 11784 / 11785 Standard Compliant
- ▶ Lock feature converts EEPROM words into Read Only
- ▶ 100 to 150 kHz frequency range
- ▶ On-chip rectifier and voltage limiter
- ▶ No external supply buffer capacitor needed
- ▶ EM4305: 3 resonant capacitor versions 210pF, 250pF or 330pF selectable by mask option
- ▶ Available in plastic extremely thin small outline package; 2 terminals; body 1.1 * 1.4 * 0.46 mm
- ▶ EM4205: 2 resonant capacitor versions 210pF or 250pF selectable by mask option. The resonant capacitor can be trimmed, at factory level, to offer accuracy on the tolerance of 3%.
- ▶ Two data encodings: Manchester and Bi-phase
- ▶ Multi-purpose data rate: 8, 16, 32, 40 and 64 RF clocks
- ▶ Reader Talk First feature
- ▶ Very low power consumption and High performances
- ▶ Compatible with EM4469/EM4569 communication protocol
- ▶ -40°C to +85°C temperature range
- ▶ Very low power consumption
- ▶ Enlarged bumped pads (200m x 400m) for direct connection of coil (EM4305)

APPLICATIONS

EM4305 chip is suitable for low-cost solutions like animal tagging applications and can be encapsulated into different forms, like tag, wristband, card, etc. widely used in the following applications:

- Animal Identification according to ISO FDX-B
- Pigeon races standard
- Waste management standard (BDE)
- Access Control
- Industrial

Packaging and shipping



Volume	Chip Card: 200pcs cards with chips in one box, 2000/3000pcs per carton Common Card: 250pcs per box, 2500/3000pcs per carton Inkjet White Card: 230pcs per box, 3450pcs per carton
Weight	Chip Card: 6.5KG for 1000pcs Common Card: 6.0KG for 1000pcs
Carton Size	49*23*16CM (for 2000/2500pcs) 49*23*20CM (for 3000pcs) Special demands for packing available.
Delivery Time	Generally, 3 days for DHL/FedEx/UPS, 10 days for air shipping, 18 days for sea shipping.
Shipping	DHL/TNT/FEDEX /UPS ,By Air / Sea or as required