

## Mifare 4k Cards- spec sheet

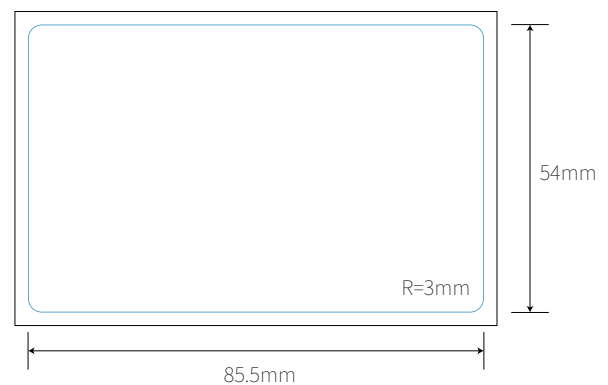
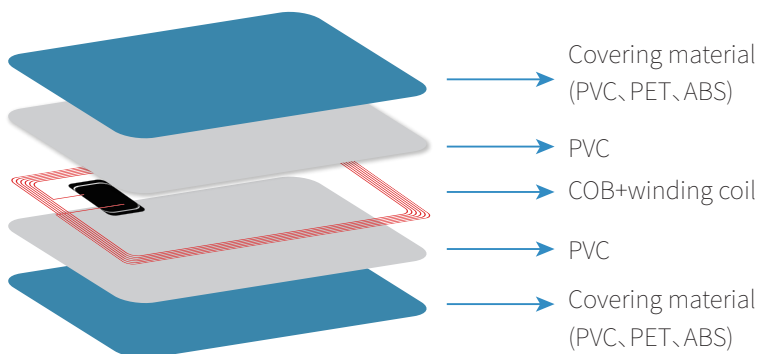


Mifare 4K Cards are also known as S70 Cards. This smart card uses the Mifare IC S70 chip which is a mainstream contactless smart card IC. It conforms to the IEC/ISO 14443 protocol. The S70 chip has advanced data encryption and a two-way password authentication system. Compared with the S50 chip card, the S70 chip card has a greater storage capacity, perfect for highway tolls, bus cards, parking lot, and other applications. Cards can be pre-printed in the factory with high-quality offset or screen printing. Also, they can be personalized printing with a small printer.

### Parameters

Item	Mifare 4k Cards	Color	Custom	Working Temperature	-20~+70°C
Material	PVC or PET	Size	85.5*54mm	Data Retention Time	10 years
Chip	Mifare 4K	Memory	4kB	R/W	Read and Write
Frequency	13.56 MHz	Reading Distance	1~10 cm	Crafts Available	silkscreen logo/Laser serial number/UID print, etc
Protocol	ISO/IEC 14443	Write Endurance	100,000 times	Surface	Glossy/Matt/Frosted

### Dimensional Diagram



### Feature

- ▶ Contactless transmission of data and supply energy
- ▶ Support customization, including color, craft, printing, size, etc.
- ▶ Data integrity of 16-bit CRC, parity, bit coding, bit counting
- ▶ Fine workmanship and good quality: flat and smooth, without burrs
- ▶ Typical ticketing transaction time of <100ms (including backup management)
- ▶ Operating distance up to 100mm (depending on antenna geometry and reader configuration)
- ▶ The Individual set of two keys per sector to support multi-application with key hierarchy
- ▶ Intelligent anticollision
- ▶ Data transfer of 106 Kbit/s
- ▶ 7 Byte UID or 4 Byte NUID
- ▶ Random ID support(7 Byte UID version)
- ▶ Operating frequency of 13.56MHz
- ▶ Support double-sided printing

## APPLICATIONS

- Personal identification
- Public Transportation
- Access Management
- Electronic Toll Collection
- School and Campus Cards
- Membership Management
- Attendance Management
- Employee Cards
- Hotel key cards
- Parking Lot Management

## Available chips

### HF 13.56 MHz Chips

Chip Name	Protocol	Capacity	Frequency
Ntag213	ISO14443A	180 byte	13.56 MHz
Ntag215	ISO14443A	540 byte	13.56 MHz
Ntag216	ISO14443A	924 byte	13.56 MHz
MIFARE Classic 1K	ISO14443A	1 KB	13.56 MHz
MIFARE Classic 4K	ISO14443A	4 KB	13.56 MHz
MIFARE Ultralight EV1	ISO14443A	80 byte	13.56 MHz
MIFARE Ultralight C	ISO14443A	192 byte	13.56 MHz
ICODE SLIX	ISO15693	1024 bits	13.56 MHz