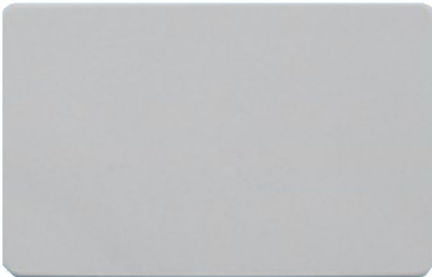


# UHFMF (DESFire EV3)

## UHF + MIFARE DESFire EV3 DUAL CHIP CARD



### Product Feature

- **Dual Frequency:** UHF (865-928MHz)  
Mifare DESFire EV3 (13.56MHz)
- High quality printable cards.
- Used for access management.

### UHF

UHF cards, typically stand for Ultra High Frequency cards. UHF RFID technology operates in the ultra-high frequency band of the electromagnetic spectrum, typically around 865-928MHz. These cards are equipped with an embedded UHF RFID chip and antenna, allowing them to communicate wirelessly with UHF RFID readers.

The UHF system widely used in vehicle and goods management as well as in access control.

### Key Feature

- Long reading distance.
- Flexible storage structure.
- Long working life.

### Technical Specification

Product	UHF Card
Nature of Work	Passive tag
Working Frequency Band	865MHz ~ 928MHz
Chip Capacity	2048Bit R/W Memory (865-928MHz)
Protocol	ISO18000-6C (865-928MHz)
Chip	Alien/Higgs3
Memory	512 Bits
Read Rate	Average reading time of single card 32bits <2ms
Working Temperature	-20°C~60°C
Storage Temperature	-55°C~100°C
Recognition Distance	>5 meter (Depending on the antenna, 865-928MHz)
Working Life	>10 years
Rewrite Cycle	>100,000 times
Size	86×54×0.8mm
Material	PVC 0.13 Copper

## Mifare DESFire EV3

MIFARE DESFire EV3 is the latest member of the MIFARE DESFire family. The MIFARE DESFire family offers products which are based on a flexible, secure and scalable platform, offering continuous innovation and the important aspects security as well as privacy. Extending the MIFARE DESFire EV2 which is a very powerful, flexible and complex platform for dynamic multi-application use cases, the MIFARE DESFire EV3 offers even more advanced hardware and software implementation on a brand new IC.

MIFARE DESFire EV3 is covering all well-known commands and features from MIFARE DESFire EV2, plus adding some new features like Transaction Timer and Secure Dynamic Messaging on top.

### Key Feature

- Authentication on application level.
- Flexible file structure for true multi-application operation.
- Inter-application file sharing enables multiple applications with a common purse.
- Virtual card architecture for privacy protection.

### Technical Specification

Product	Mifare DESFire EV3
Non-volatile(NV) Size(kb)	2
Write Endurance (Cycles)	1,000,000
Data Retention (Years)	25
RF Interface According to ISO/IEC 14443A	Yes - up to layer 4
Frequency	13.56MHz
Baud Rate (kbits/s)	106 - 848
Access Keys	14 keys per application
Multiple Key Sets	Up to 16 per application
Access Conditions	Up to 8 keys per access right

### Structure

