

NFC DESFire EV1 Card-spec sheet



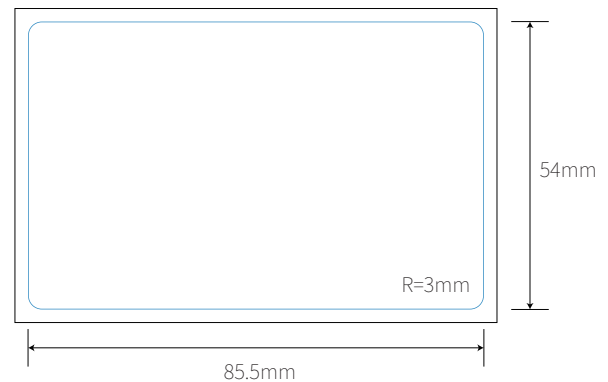
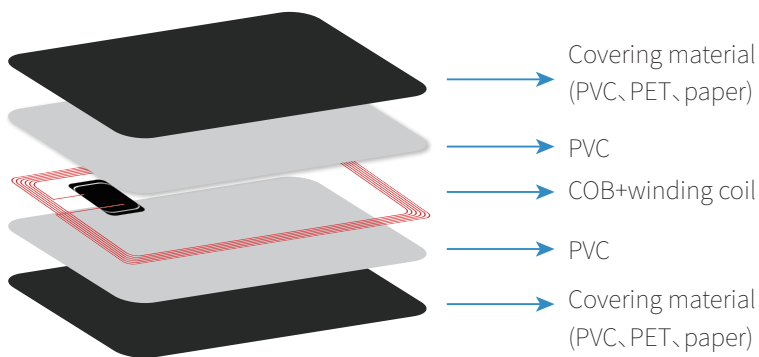
NFC DESFire EV1 Card adopts the DESFire EV1 chip. It has good security performance and large capacity and features flexible and convenient. This NFC card is very suitable for public transportation, access management, or closed-loop e-payment applications.

DESFire EV1 chip card is compliant to all levels of ISO/IEC 14443A and uses optional ISO/IEC 7816-4 commands. Standard DESFire EV1 card is made of PVC, PET, or Paper material. And you can also customize it, including size, shape, material, color, crafts, and so on.

Parameters

Item	DESFire EV1 Chip Card	Color	White, Black, pink, red, blue, etc.	Working Temperature	-20~+70°C
Material	PVC, PET, Paper	Size	CR80 (85.5*54mm) or Custom	Data Retention Time	10 years
Chip	DESFire EV1	Memory	2KB, 4KB, 8KB	Crafts Available	silkscreen logo/Laser serial number/UID print, etc
Frequency	13.56 MHz	Reading Distance	100mm	Type	NFC
Protocol	ISO/IEC 14443A	Write Endurance	100,000 times		

Dimensional Diagram



Feature

- ▶ Use the ISO/IEC 14443-4 protocol
- ▶ Fast data transfer: 106 kbit/s, 212 kbit/s, 424 kbit/s, 848 kbit/s,
- ▶ High data integrity: 16/32 bit CRC, parity, bit coding, bit counting
- ▶ True deterministic anticollision
- ▶ Operating frequency: 13.56 MHz
- ▶ Operating distance: up to 100mm (depending on power provided by the PCD and antenna geometry)
- ▶ Contactless transmission of data and supply energy (no battery needed)
- ▶ 7 bytes unique identifier(cascade level 2 according to ISO/IEC 14443-3 and option for random ID)

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

APPLICATIONS

- Advanced public transportation schema
- Highly secure access management
- eGovernment applications
- Closed-loop e-payment scheme
- Event ticketing