

Ultralight EV1 Chip Card-spec sheet



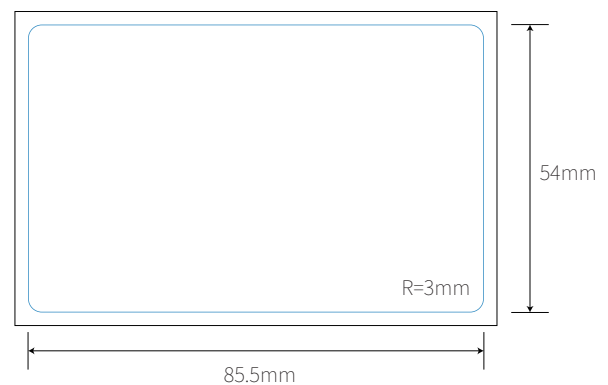
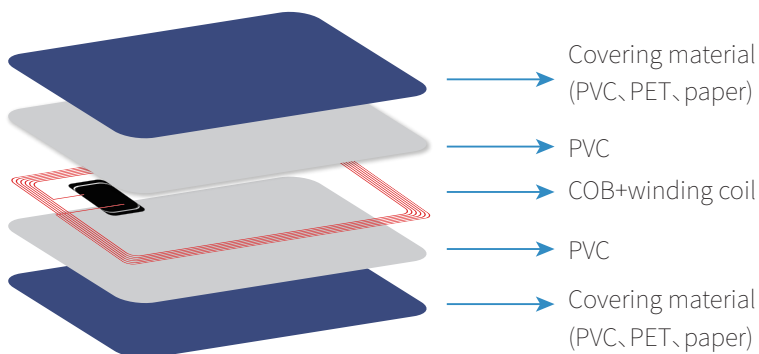
Ultralight EV1 Chip Card is a much more economical NFC card. The chip that it uses is designed in simplified application mode and can be embedded in thinner-sized cards. Ultralight EV1 Card is a non-encrypted product that can be used in low-value or one-time tickets.

Transportation operators can use it to provide daily or limited tickets for tourists. Besides, public transport operators can use this card to run a fully integrated contactless system. It is widely used in single trips or limited uses tickets in public transportation networks, loyalty cards or day passes for events.

Parameters

Item	Ultralight 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	Ultralight EV1	Memory	640bits	Crafts Available	silkscreen logo/Laser serial number/UID print, etc
Frequency	13.56 MHz	Reading Distance	100mm	Type	NFC
Protocol	ISO/IEC 14443	Write Endurance	100,000 times		

Dimensional Diagram



Feature

- ▶ Contactless transmission of data and supply energy
- ▶ True anticollision
- ▶ 7-byte serial number (cascade level 2 according to ISO/IEC 14443-3)
- ▶ Operating distance up to 100mm (depending on antenna geometry)
- ▶ Operating frequency: 13.56 MHz (ISM, world-wide license freely available)
- ▶ Typical ticketing transaction:< 35 ms
- ▶ Fast data transfer of 106 kbit/s
- ▶ High data integrity of 16-bit CRC, parity, bit coding, bit counting
- ▶ Fast counter transaction: < 10ms

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

- Public Transportation
- Event Ticketing
- Loyalty
- Other applications