



MiFare Cards - Additional Information

The MiFare card originated from NXP Semiconductors and is selected for most contactless smart card projects, making it the most important smart card for contactless card requirements. Complying with ISO 14443A applications include automatic fare collection, access control, road tolling, loyalty membership, gaming, etc.

MiFare 1K ISO proximity cards are widely used for secure RFID applications, being that the 1KB EEPROM is configured into 16 sectors, so a single card can be used for multi applications. Variations on the MiFare card include the classic card, DESFire card, Ultralight card and the Plus card for fast and easy solutions. This card is a great solution for E-tickets, electronic payments, hotel guestroom locking systems, access control and time & attendance systems.

Our MiFare cards can be supplied as a plain white card or we can have the cards pre-printed for you with both options incorporating the original NXP chip. We also offer MiFare compatible cards so if you would to have the same function and lower pricing, the MiFare S50 card with a compatible chip will meet your requirements.

MiFare Cards:

About MF 1 IC S50:

- IC manufacturer: NXP (subsidiary to Philips)
- Wafer die: MF 1 IC S50
- Function: Read/Write protect by password
- Memory: 1K-Byte EEPROM (16 sectors)
- Frequency: 13.56MHz
- RF protocol: ISO 14443A
- Modulation: ASK

Key Feature of MiFare 1K Card:

- Dimensions: CR80 85.60 x 53.98mm
- Thickness: 0.84mm
- Material: PVC, PET
- Card Surface: Matte/ gloss finish
- Housing: Lamination
- Working Frequency: 13.56MHz
- Reading Distance: 6cm typically
- Data storage time: 10 years
- Package: 200pcs per Inner Box; 20 Inner Boxes per Carton, each Carton gross weight at 28KGs
- Signature panel

Printing Option:

- Full color offset printing
- Silk-screen printing
- Silver/Gold silk-screen printing background

Options on standard card:

- Magnetic Stripe Option: 300oe, 2750oe, 4000oe
- Numbering: Jetdot/ Thermo transfer/ Laser engrave
- Barcode printing



- Embossing

MiFare Ultralight (NXP) Card

The MiFare Ultralight is NXP's low-cost product using the widely adopted standard ISO 14443A being mostly used for secure RFID applications. The 1KB EEPROM is configured into 32 sectors, so a single card can be used for multi-applications such as E-tickets, electronic payments and single journey ticketing.

About MF 0 IC U10 IC:

- IC manufacturer: NXP founded by Philips
- Wafer die: MF 0 IC U1
- Function: Read/Write without security
- Memory: 512-bit EEPROM 16 pages of 4 bytes.
- Frequency: 13.56MHz
- RF protocol: ISO 14443A
- Modulation: ASK

Key Feature of MiFare Ultralight Card:

- Dimensions: CR80 85.60 x 53.98mm
- Thickness: 0.84mm
- Material: PVC, PET
- Card Surface: Matte/ gloss finish
- Housing: Lamination
- Working Frequency: 13.56MHz
- Reading Distance: 6cm typically
- Data storage time: 10 years
- Package: 200pcs per Inner Box; 20 Inner Boxes per Carton, each Carton gross weight at 28KGs

Printing Option:

- Full color offset printing
- Silk-screen printing
- Silver/Gold silk-screen printing background

Options on standard card:

- Magnetic Stripe Option: 300oe, 2750oe, 4000oe
- Numbering: Jet dot/ Thermo transfer/Laser engrave
- Barcode printing
- Signature panel
- Embossing

