MIFARE® Card

MIFARE® Cards • 1430, 1436, 1440, 1446

- Security Mutual authentication, data encryption and unique 32-bit serial number.
- Read/Write Functionality Ideal for e-Purse
- True Credit Card Thickness Use with all direct image and thermal transfer printers.



ACCESS interoperability.

HID's MIFARE® offerings encompass the industry's broadest range of open standard contactless smart card products. The HID MIFARE card is a credit card-sized credential ideal for diverse applications such as access control, cashless vending, public transportation, corporate and campus applications, event ticketing, customer loyalty and photo ID cards.

HID MIFARE credentials have the memory structure and capacity to store multiple applications on a single credential. Securely separated sectors, each protected by a set of two keys and programmable access conditions, allow complex applications and provide for future expansion. The data on the card is protected with encryption keys used in the mutual authentication process. Therefore, no important data will be shared until the card and reader have been authenticated to each other.

When security and performance count most, HID's MIFARE cards can be produced with visual security and anti-counterfeiting features such as holograms, ultra-violet fluorescent inks, micro-printing or a custom logo to quickly and easily identify genuine cards.

Key Features

- Proven, Reliable Technology Offers extremely consistent read range. Use is unaffected by body shielding or variable environmental conditions, even when close to keys and coins.
- ▶ Fast Processing and Data Communication Transaction times are less than 100 milliseconds for a typical secure ticketing transaction.
- Multiple Memory Types Available in MIFARE 1K and 4K.

Features

Long Life Passive, no-battery design allows for an infinite number of

eads.

Durability Strong, flexible and resistant to damage.

Photo ID Print directly to the card with a direct image or thermal transfer printer. Slot punch vertically for easy use.

PVC Card Surface Card is optimized for dye sublimation printing.

Customizable Specify your own text or graphics artwork.

Thin 0.030" (0.076 cm) card can be carried with credit cards in a wallet or purse. Use with a strap and clip as a photo ID badge.

Many Ordering Options

Including magnetic stripe, external card numbering, vertical slot punch, custom artwork, and contact smart chip module.

Memory Specification

IK Byte (8,192 bits) or 4K Bytes (32,768 bits)

Memory Sector 0 is used as the MIFARE® Application Directory (MAD)

- Unique 4 Byte (32 bit) ID per card (CSN)
- Each sector uses two encryption keys
- Key "A" to read only
- Key "B" to read/write
- Each encryption key is 6 Bytes (48 bits)

| Dimensions | 2.125" × 3.375" × .03" (5.4 × 8.57 × 0.076 cm) |
|--------------------------------|--|
| 2 | |
| Weight | 0.20 oz. (6 g) |
| Typical Maximum Read Range* | Up to 4" (10 cm) |
| Operating Temperature | Model 1430, 1440 PVC Cards: -40 to 122°F (-40 to 50°C) Model 1436, 1446 Composite Cards: -40 to 158°F (-40 to 70°C) |
| Operating Humidity | 5%-95% Non-condensing |
| Operating Frequency | 13.56 MHz |
| RF Interface | ISO 14443 A, Parts 1-3 |
| Transaction Time | < 100 ms |
| Baud Rate | 106 kbps |
| Memory Type | EEPROM, IKbyte (8,192 bits) or 4 Kbytes (32,768 bits) |
| Multi-Application Memory | MIFARE 1K: memory arranged in 16 64-byte Sectors MIFARE 4K: memory arranged in 40 Sectors: 32 sectors of 64 bytes, 8 sectors of 256 bytes |
| Write Endurance | 100,000 cycles min. |
| Data Retention | 10 years min. |
| Material and Finish | Gloss white/white PVC or PVC/Polyester Composite |
| Card Marking | Inkjet Standard, Laser Engraving optional |
| Custom Graphics | Optional |
| Slot Punch | Vertical slot punch optional |
| Programming | Factory or Field Programmable |
| Part Number | Model 1430 PVC MIFARE IK Card Model 1440 PVC MIFARE 4K Card Model 1436 Composite PET/PVC MIFARE IK Card Model 1446 Composite PET/PVC MIFARE 4K Card |
| Description | MIFARE Card, ISO Thick, Photo Imageable |
| Warranty | Lifetime - see Sales Policy for complete details |

*Dependent on local installation conditions.

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MKT-MIFARE-CARD-DS-EN



ACCESS experience.

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