Public Transportation

Cashless Vending

Phone Cards

University Cards

Airline Ticketing

Access Control

Customer Loyalty

HID MIFARE® Card

13.56 MHz MIFARE Contactless Smart Card

Application

HID's contactless MIFARE card can be used for diverse applications such as access control, cashless vending, public transportation, airline ticketing, customer loyalty and photo ID cards. Sixteen securely separated files enable multiple applications and support future growth.

Features

- 13.56 MHz operating frequency provides high-speed, reliable communications with high data integrity.
- MIFARE technology ensures high security (mutual authentication, data encryption, unique 32-bit serial number).
- Provides for contactless access control with a read-range up to 3.9" (10 cm).
- e-Purse functions (read/write capability).
- Meets ISO standards for thickness; use with all direct image and thermal transfer printers.

1431-3600

HID
HID CORPORATION

HID MIFARE® CARD

1431

•FINISHED CREDENTIAL
Card printing by HID's Card Personalization Service

EVEN SMARTER
Embed this card with a contact smart chip module

MANUFACTURING

GLOBALBIZ INC

HID
HID CORPORATION

Features

Read/write Functionality for Multi-functional Memory Applications

Sixteen securely separated files (sectors), each protected by a set of two keys and programmable access conditions, allow complex applications and provide for future expansion. Each sector potentially represents a different application. Arithmetic functions are used for expanding the capabilities of the chip.

Different keys can protect read/write operations in order to build key hierarchies in the system. Security mechanisms such as mutual authentication and encryption are efficiently combined with fast processing and data communication, resulting in transaction times of less than 100 milliseconds for a typical secure ticketing transaction.

Proven, Reliable Technology
Offers extremely consistent read range. Unaffected by body shielding or variable environmental conditions, even when close to keys and coins.

Thin
Can be carried with credit cards in a wallet or purse. Use with a strap and clip as a photo ID badge.

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

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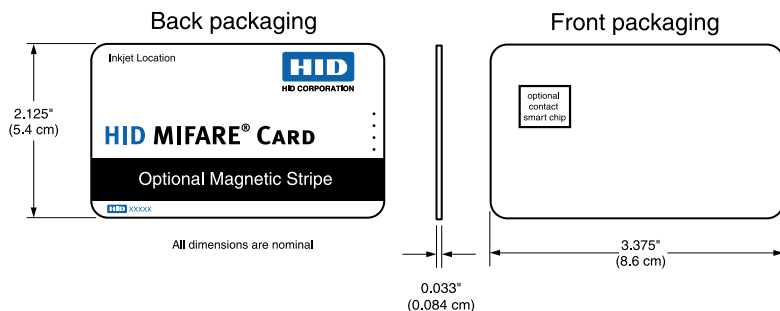Passive, no-battery design allows for an infinite number of reads.

Durability
Strong, flexible and resistant to cracking and breaking.

Options:
• Magnetic stripe
• External card numbering (inkjet or laser engraving)
• Vertical slot punch
• Custom artwork (text or graphics)
• Contact smart chip module

(Please see "How To Order Guide" for a description of the options and associated part numbers.)

Warranty: Conditional one-year warranty. See complete warranty policy for details.

Specifications

Typical Maximum Read Range
Up to 3.9" (10 cm), depending on local installation conditions.

Card Dimensions
2.125" x 3.375" x 0.033" max.
(5.40 x 8.57 x 0.084 cm)

Card Construction
Thin, flexible polyvinyl chloride (PVC) laminate.

Operating Temperature
-13° to 158° F (-25° to 70° C)

Part Number
Base Part No.: 1430

Description: 13.56 MHz MIFARE contactless smart card, location marked for vertical slot punch.

Operating Frequency
13.56 MHz

RF Interface
As suggested by ISO/IEC 14443, Type A

Transaction Time
<100 ms typical

Baud Rate
106 Kbaud

Memory Size
1 Kbyte

Memory Type
EEPROM, read/write

Multi-application Memory
16 sectors

Fixed Serial Number
Unique, 32 bit

Write Endurance
Min. 100,000 cycles

Data Retention
10 years

LIT1430DS 6/01, supersedes 11/00

Back packaging

Inkjet Location

HID
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2.125"
(5.4 cm)

HID MIFARE® Card

Optional Magnetic Stripe

HID XXXXX

All dimensions are nominal

Front packaging

optional
contact
smart chip

3.375"
(8.6 cm)

0.033"
(0.084 cm)

ISO 9001 · ANSI·RAB QMS · ACCREDITED

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