125 kHz Proximity and 13.56 MHz MIFARE **Contactless Smart Card**

HID Proximity and MIFARE® Card

Application

HID's Proximity and MIFARE contactless card combines smart card technology with the benefits of HID's proven proximity technology. The 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

EVEN SMARTER Embed this card with a contact smart chip module

MIFARE® is a registered trademark of Philips Electronics, N.V.

An ASSA Abloy Group company

- Ideal for companies that want to add smart card applications to an existing HID proximity technology access control system.
- Supports all HID proximity card formats, including Corporate 1000.
- 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).





HID CORPORATION

1431 Series





HID Proximity and MIFARE® Card

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 transition 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.

Part Number

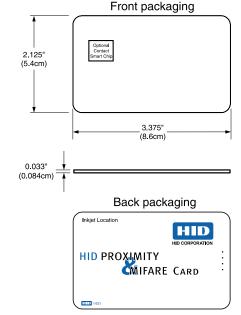
Base Part No.: 1431

Description

125 kHz proximity and 13.56 MHz MIFARE contactless smart card, location marked for vertical slot punch.

Options

- 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 (Proximity)

Typical Maximum* Proximity Read Range
MiniProx™ reader-up to 5" (12.5 cm)
ThinLine II® reader-up to 5" (12.5 cm)
ProxPoint® Plus reader-up to 2.5" (6.25 cm)
ProxPro® reader-up to 7" (17.5 cm)
MaxiProx® reader-up to 20" (50 cm)

*Dependent on local installation conditions.

Card Dimensions

2.125" x 3.375" x 0.033" max. (5.40 x 8.57 x 0.081 cm)

Card Construction

Thin, flexible polyvinyl chloride (PVC) laminate

Operating Temperature

-13° to 158° F (-25° to 70° C)

Weight

0.24 oz. (6.8 gm)

Specifications (13.56 MHz)

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

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

LIT1431DS 6/01, supersedes 11/00





9292 Jeronimo Road Irvine, CA 92618-1905 U.S.A. +1 (949) 598-1600 (800) 237-7769 FAX +1 (949) 598-1690

www.HIDCorp.com