FlexSmart® Series Credentials

MIFARE® / Indala® Prox Combo Card • FPMXI, FPMXX

Multiple Formats - Supports all Indala proximity card formats, including FlexEnterprise[®].

Transition Solution - Add smart card applications to an existing Indala proximity technology access control system.

High Security - Mutual authentication, data encryption and unique 32-bit serial number.



ACCESS interoperability.

Combine the benefits of proven Indala Proximity and HID FlexSmart MIFARE contactless smart card technology in one card. The card can be used for diverse applications such as access control, cashless vending, public transportation, event ticketing, customer loyalty and photo ID cards. Featuring exclusive FlexSecur® security technology, the card provides an added level of access system security through a verification process at the reader. Unique to the HID Indala product line, FlexSecur screens out unauthorized cards prior to sending card data to the host system.

Manufactured to the highest quality standards, Indala Proximity and MIFARE credentials have the memory structure and capacity to store multiple applications on a single credential. The data 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 FlexSmart MIFARE cards can be produced with visual security and anti-counterfeiting features such as holograms, ultraviolet 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. Unaffected by body shielding or variable environmental conditions, even when close to keys and coins.
- ▶ Multiple Memory Types Available in MIFARE IK and 4K.
- ▶ True Credit Card Thickness Use with all direct image and thermal transfer printers.

Features

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

Durability Strong, flexible and resistant to damage.

Photo ID Print directly to the card with a direct image or thermal **Compatible** 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" x 3.375" x .03" (5.4 x 8.57 x 0.076 cm)
Weight	0.24 oz. (6.8 g)
Typical Maximum Read Range*	MIFARE: Up to 4" (10 cm) Prox: 2" – 4.5" (5.0 – 11.4 cm)
Operating Temperature	Model FPMXI PVC Cards: -40 to 122°F (-40 to 50°C) Model FPMXX Composite Cards: -40 to 158°F (-40 to 70°C)
Operating Humidity	5%-95% Non-condensing
Operating Frequency	125 kHz Prox and 13.56 MHz MIFARE
RF Interface	ISO 14443 A, Parts I-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 FPMXI PVC Indala Prox MIFARE IK Card Model FPMXX Composite PET/PVC Indala Prox Mifare IK Card
Description	MIFARE / Indala® Prox Combo Card, ISO Thick, Photo Imageable
Warranty	Lifetime - see Sales Policy for complete details
	*Dependent on local installation conditions.

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MKT-MIFIPROX-DS-EN

ACCESS experience.

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