

# FlexSmart® Series Credentials

## DESFire® / Indala® Prox Combo Card • FPD XI, FPD XX

- ▶ **Multiple Formats** - Supports all Indala proximity card formats, including FlexEnterprise®.
- ▶ **Transition Solution** - Add smart card applications to existing Indala proximity technology access control system.
- ▶ **High Security** - Mutual authentication, DES and triple-DES data encryption, and unique 56-bit serial number.



### ACCESS interoperability.

Combine the benefits of proven Indala Proximity and HID FlexSmart DESFire contactless smart card technology in one card. The card can be used for diverse applications such as access control and biometric identification, cashless vending, public transportation, 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.

HID DESFire credentials have 4 KB of dynamic memory arranged in easy-to-define application folders and data files. DESFire data can be encrypted with the highly secure Data Encryption Standard (3DES) algorithm assuring that data in the card is secure before, during and after the transaction, as well as between folders and files within the credential itself.

Available in PVC and Composite PET/PVC card construction, the card is exceptionally durable. It can accept an embeddable contact chip for logical access and biometric ID systems, and allows customers with a Prox installation to continue using their existing system while adding contactless smart card capability.

When security and performance count most, HID's FlexSmart DESFire 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.
- ▶ **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 reads.

## Durability

Strong, flexible and resistant to damage.

## Photo ID Compatible

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.

<b>Dimensions</b>	2.125" x 3.375" x .03" (5.4 x 8.57 x 0.084 cm)
<b>Weight</b>	0.24 oz. ( 6.8 g )
<b>Typical Maximum Read Range*</b>	DESFire: Up to 4" (10 cm) Prox: 2" – 5" (5.0 – 12.7 cm)
<b>Operating Temperature</b>	Model FPD XI PVC Cards: -40 to 122°F (-40 to 50°C) Model FPD XX Composite Cards: -40 to 158°F (-40 to 70°C)
<b>Operating Humidity</b>	5%-95% Non-condensing
<b>Operating Frequency</b>	13.56 MHz
<b>RF Interface</b>	ISO 14443 A, Parts 1-4
<b>Transaction Time</b>	< 100 ms
<b>Baud Rate</b>	106,212 or 424 kbps
<b>Memory Type</b>	EEPROM, 4 Kbytes (32,768 bits)
<b>Multi-Application Memory</b>	Dynamic Memory structure, up to 28 applications
<b>Write Endurance</b>	100,000 cycles min.
<b>Data Retention</b>	10 years min.
<b>Material and Finish</b>	Gloss white/white PVC or PVC/Polyester Composite
<b>Card Marking</b>	Inkjet Standard, laser Engraving optional
<b>Custom Graphics</b>	Optional
<b>Slot Punch</b>	Vertical slot punch optional
<b>Programming</b>	Factory or Field Programmable
<b>Part Number</b>	Model FPD XI PVC DESFire Prox Card Model FPD XX Composite PET/PVC DESFire Prox Card
<b>Description</b>	DESFire Indala Prox Combo Card, ISO Thick, Photo Imageable
<b>Warranty</b>	Lifetime - see Sales Policy for complete details

\*Dependent on local installation conditions.



## ACCESS experience.

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