

FlexSmart® Series Credentials

DESFire® / HID Prox Combo Card • 1451, 1457

- ▶ **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.

HID Proximity and FlexSmart DESFire ISO card is an extra-secure credit card-sized credential that complies with ISO 7810 and 7813 standards. It can be used for diverse applications such as access control and biometric identification, cashless vending, public transportation, ticketing, customer loyalty and photo ID cards. Available in PVC and Composite PET/PVC card construction, the HID DESFire Prox card is exceptionally durable, and can accept an embeddable contact chip for logical access and biometric ID systems.

13.56 MHz DESFire read/write technology and HID 125 kHz proximity technology are combined in a single ISO standard thickness card. This card enables contactless smart card applications to be added to an existing HID proximity technology access control 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.

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.

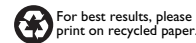
Thin 0.030" (0.076 cm) card can be carried with credit cards in a wallet or purse. Use with a strap and clip as a photo ID badge.

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

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*	DESFire: Up to 4" (10 cm) Prox: 2" – 4.5" (5.0 – 11.4 cm)
Operating Temperature	Model 1451 PVC Cards: -40 to 122°F (-40 to 50°C) Model 1457 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 1-4
Transaction Time	< 100 ms
Baud Rate	106,212 or 424 kbps
Memory Type	EEPROM, 4 Kbytes (32,768 bits)
Multi-Application Memory	Dynamic Memory structure, up to 28 applications
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 1451 PVC DESFire Prox Card Model 1457 Composite PET/PVC DESFire Prox Card
Description	DESFire / HID Prox Combo Card, ISO Thick, Photo Imageable
Warranty	Lifetime - see Sales Policy for complete details

*Dependent on local installation conditions.

© 2007 HID Global Corporation. All rights reserved. HID, the HID logo, and FlexSmart are trademarks or registered trademarks of HID Global in the U.S. and/or other countries. All other trademarks, service marks, and product or service names are trademarks or registered trademarks of their respective owners. Rev. 4/2007



MKT-DESPROX-DS-EN



ACCESS experience.

hidcorp.com

HID Global Offices:

Corporate North America
9292 Jeronimo Road
Irvine, CA 92618-1905
U.S.A.
Phone: (800) 237-7769
Phone: (949) 598-1600
Fax: (949) 598-1690

Asia Pacific
19/F 625 King's Road
North Point
Island East
Hong Kong
Phone: +852 3160-9800
Fax: +852 3160-4809

Latin America
Circunvalacion Ote. #201 B
Despacho 2
Col. Jardines del Moral
Leon 37160, Gto.
Mexico
Phone: +52 477 779 1492
Fax: +52 477 779 1493

Europe, Middle East & Africa
Homefield Road
Haverhill, Suffolk
CB9 8QP
England
Phone: +44 (0) 1440 714 850
Fax: +44 (0) 1440 714 840