

# FlexSmart® Series Credentials

## DESFire® Keyfob • I454

- ▶ **FlexKey Flexibility and Convenience** - Contemporary design enables easy attachment to a key, badge clip or badge lanyard.
- ▶ **Rugged, Double-Sealed Construction** - Built to withstand harsh operating environments.
- ▶ **Customizable** - Can be customized by adding a company logo.



### ACCESS interoperability.

The rugged HID FlexSmart DESFire Keyfob is ideally suited for a variety of applications and environments. These include vacation resorts, health spas, apartment buildings, club houses, as well as commercial offices where photo IDs are not required. The HID DESFire Keyfob permits the encoding of a wide range of data and information, featuring the high quality and security benefits customers appreciate in HID 13.56 MHz DESFire credentials.

HID DESFire credentials have 4K 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 providing the confidence that data in the card is secure before, during and after the transaction, as well as between folders and files within the credential itself.

#### Key Features

- ▶ **High Security** - DESFire technology includes mutual authentication, DES and triple-DES data encryption, and unique 56-bit serial number.
- ▶ **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.

# Features

## Long Life

Passive, no-battery design allows for 100,000 read/write operations.

## Rugged and Durable Design

Able to withstand harsh environments, the MIFARE® Keyfob® has double-sealed construction. Inner electronics are fully encapsulated in epoxy. Outer body is an ultra-sonic welded, polycarbonate material.

## Applications

Designed for vacation resorts, health spas, apartment buildings, locker rooms, gated communities, vehicle fleet management, and corporate environments.

<b>Dimensions</b>	1.725" x 1.197" x 0.215" (4.38 cm x 3.04 cm x 0.55 cm)
<b>Weight</b>	0.191 oz. (5.4 g)
<b>Typical Maximum Read Range*</b>	Up to 2" (5.0 cm)
<b>Operating Temperature</b>	-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 1-3
<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>	Molded Polycarbonate, matte blue
<b>Card Marking</b>	Inkjet Standard, laser engraving optional.
<b>Custom Graphics</b>	Optional
<b>Slot Punch</b>	Key Ring Hole
<b>Programming</b>	Factory or Field Programmable
<b>Part Number</b>	Model 1454 FlexSmart DESFire FlexKey
<b>Description</b>	DESFire Keyfob
<b>Warranty</b>	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



For best results, please print on recycled paper.

MKT-DESFIRE-KEYFOB-DS-EN



## ACCESS experience.

[hidcorp.com](http://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