



ACCESS flexibility.

HID's iCLASS® 13.56 MHz read/write contactless smart card technology can be used for diverse applications such as access control, biometrics, cashless vending, public transportation, airline ticketing and customer loyalty programs. Multiple, securely separated files enable numerous applications and support future growth.

The iCLASS Key provides the convenience of iCLASS 13.56 MHz contactless read/write smart card in a molded plastic key fob enclosure that is durable in a harsh environment. This key fob is the size of a typical automotive key and offers custom artwork printing capabilities directly on the key fob credential. You now can offer a credential that can be placed on a key ring or lanyard for such diverse applications including access control, network log-on security, automotive vehicle identification, cashless vending, time and attendance, and biometric verification.

Features:

- ▶ The iCLASS 13.56 MHz read/write contactless smart key technology provides high-speed, reliable communications with high data integrity.
- ▶ iCLASS technology ensures high security with mutual authentication, encrypted data transfer, and 64-bit diversified keys for read/write capabilities.
- ▶ Any existing HID format can be factory or field programmed into the secure HID access control application area.
- ▶ Available in 2k bit (256 Byte), 16k bit (2k Byte) or 32k bit (4k Byte) configurations.
- ▶ Molded plastic enclosure provides durability in harsh environments.
- ▶ Can be placed on a key ring or clipped to a lanyard for convenient entry.

All 2k bit (256 Byte) iCLASS credentials have the following features:

- ▶ Available in two application area configuration only.
- ▶ Provides the HID standard access control application area and one other application area for user customization.
- ▶ Meets ISO 15693 standard for contactless communications.
- ▶ Provides a cost effective way to improve the security of your access control installation.

All 16k bit (2k Byte) and 32k bit (4k Byte) iCLASS credentials have the following features:

- ▶ Sufficient read/write memory to store multiple biometric templates.
- ▶ 16k available in a two or sixteen application area configuration. 32k available with 16k memory configured in either 2 or 16 application areas, plus an additional 16k user configurable memory.
- ▶ Multiple securely separated files enable numerous applications, including the HID standard access control application, and support future growth.
- ▶ Meets ISO 15693 and I4443B for contactless communications.

Features

Read/write Functionality for Multi-functional Memory Applications

iCLASS® was specifically designed to make access control more powerful, more versatile, and more secure. All radio frequency data transmission between the key and reader is encrypted using a secure algorithm. By using industry standard encryption techniques, iCLASS reduces the risk of compromised data or duplicated keys. For even higher security, the key data may also be protected with DES or triple DES encryption. Multiple securely separated application areas are each protected by 64-bit diversified read/write keys which allow complex applications and provide for future expansion.

Security mechanisms such as mutual authentication and encryption are efficiently combined with fast processing and data communication, resulting in transaction times of less than 100 milliseconds for a typical secure e-purse transaction.

Offers extremely consistent read range. Unaffected by body shielding or variable environmental conditions.

Can be carried with keys in pocket, handbag, or clipped on a lanyard.

Passive, no-battery design allows for an estimated minimum 100,000 reads.

Polycarbonate package is resistant to cracking and breaking.

- External key numbering (inkjet or laser engraving)
- Color - Textured, matte, gray or black (Please see "How To Order Guide" for a description of the options and associated part numbers.)

Lifetime Warranty. See complete warranty policy for details.

- 2050 for 2k bit (256 Byte) key
- 2051 for 16k bit (2k Byte) key with 2 application areas
- 2052 for 16k bit (2k Byte) key with 16 application areas
- 2053 for 32k bit (4k Byte) 16k/2+16k/1.
- 2054 for 32k bit (4k Byte) 16k/16 + 16k/1.

13.56 MHz contactless smart key. Available in textured, matte or black.

Specifications

Typical Maximum Read Range*

R10 1.0" (2.5 cm)
R30/RW300 1.0" (2.5 cm)
R40/RW400 1.0" (2.5 cm)
RK40/RWK400 1.0" - 1.5" (2.5 cm - 3.8 cm)
*Dependent upon installation conditions.

Dimensions

1.350 x 1.250 x 1.51 in. max. (3.43 x 3.18 x 3.84 cm)

Weight

0.17 oz (4.9g)

Keyfob Construction

Ultrasonically welded polycarbonate shell.

Operating Temperature

-40° to 158° F (-40° to 70° C)

Operating Humidity

5-95% non-condensing

Operating Frequency

13.56 MHz

RF Interface

As suggested by ISO/IEC:
14443B read/write (16k only)
15693 read/write

Transaction Time

<100 ms typical

Baud Rate

14443B mode - 106 kbps
15693 read/write - 26 kbps

Memory Type

EEPROM, read/write

Multi-application Memory

2k bit (256 Byte) key – 2 application areas
16k bit (2k Byte) key – 2 or 16 application areas
32k bit (4k Byte) card – 16k bits in 2 or 16 application areas plus 16k bit user configurable.

Write Endurance

Min. 100,000 cycles

Data Retention

10 years

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MKT-I:CLASSKEY_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