

iClass® Key Fob

Contactless 13.56MHz Smart Key Fob



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.

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.

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.



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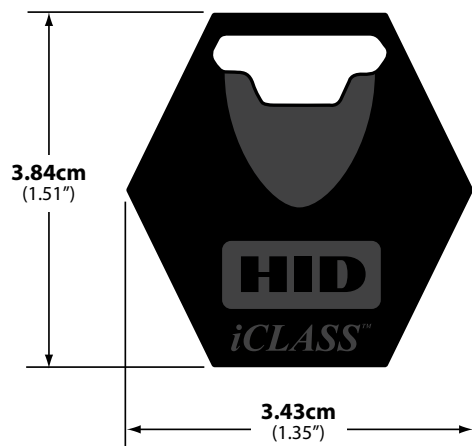
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Specifications

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" (2.5cm - 3.8cm) *Dependent upon installation conditions.
Dimensions (WxHxDcm)	3.43 x 3.18 x 3.84 cm (1.350" x 1.250" x 1.51")
Key Fob Construction	Ultrasonically welded polycarbonate shell
Operating Temperature	-40° to 70° C (-40° to 158° F)
Operating Humidity	5-95% non-condensing
Operating Frequency	13.56 MHz
Weight	4.9 grams (0.17oz)
Quick Description	13.56 MHz contactless smart key fob. Available in textured, matte or black.
Transaction Time	<100 ms typical
Baud Rate	14443 B mode - 106 kbps; 15693 mode - 26 kbps
Memory Type	EEPROM, read/write
Multi-application Memory	2k bit (256 Byte) card – 2 application areas 16k bit (2k Byte) card – 2 or 16 application areas 32k bit (4k Byte) card – 16k bits in 2 or 16 application areas plus 16k bits user configurable.
Write Endurance	Min. 100,000 cycles
Data Retention	10 years
Options	<ul style="list-style-type: none"> External card numbering (inkjet or laser engraving) Colour - textured, matte, gray, or black



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