

# UHF credentials

## High security ultra-high frequency credentials



### Features and benefits:

- Ultra high frequency read/write contactless smart card technology for long range, reliable communications with high data integrity.
- Based on EPC (Electronic Product Code) Radio Frequency Identity Protocols Class-1 Generation-2 UHF RFID Protocol for Communications at 960 MHz
- Uses logical protection (access password) to prevent unauthorized access to the memory.
- Passive, no-battery design allows for large number of reads. Strong and resistant to damage
- EPC Class-1 Generation-2 and ISO18000-6C compliant
- Supports frequency range 960 MHz
- Card memory has a 50-year data retention capability and 100,000 cycle endurance

### UHF highly secure credentials for parking and gate applications

The SIO® enabled UHF/iCLASS® credential provides a secure ultra-high frequency (UHF) long range parking and building access control solution. The UHF credential can be read from distances of up to five meters for long range identification.

### Two UHF type credentials are available for use with the KU90UHF reader:

**KIUHF:** A UHF ISO style credential that will work with the KU90UHF reader only. This UHF credential can be semi-permanently mounted in the vehicle with the optional WSHDMT (sold separately) or presented by hand as you approach. Available in packages of 50 credentials.

**KI4KSEUHF:** Dual UHF/Keyscan iCLASS credential. This smart card also combines UHF technology with Keyscan iCLASS SE technology, offering a single-credential solution for both door and parking/gate access. Available in packages of 50 credentials.

Both credentials meet strict ISO standards for thickness and can be used with high definition printers. They are strong, flexible and resistant to cracking and breaking.

**WSHDMT:** Optional windshield mount for KIUHF credential only. Suction cup mount allows semi-permanent mounting in the transponder location. Check vehicle manual for specific location. Available in packages of 10 holders.

**Impressive read range** – Ultra high frequency (UHF) technology can be read from a distance of up to five meters depending on frequency, reader and environment.

**Highly secure** – Secure Identity Object® (SIO®) enabled

**Reliable** – Able to withstand 100,000 write cycles for high read/write reliability and a long use life.

**Cost effective** – Passive no-battery design does not require maintenance

**A secure ultra-high frequency long-range solution**

KIUHF and KI4KSEUHF will function with KU90UHF readers



Specifications



Card Construction	Composite 40% Polyester / 60% PVC
Dimensions	2.127" x 3.375" x 0.033" max. (5.40 x 8.57 x 0.084 cm)
Weight	0.20 oz (5.7 g)
Operating Temperature	-40° to 158° F (-40° to 70° C)
Operating Humidity	5 - 95% non-condensing
Operating Frequency	960 MHz (North America)
RF Interface	As suggested by ISO18000-6C and EPC Class-1 Gen-2
Baud Rate <sup>1</sup>	Reader to card data rate: 26.7Kbit/s ->128Kbit/s Card to reader data rate: 40Kbits/s -> 640Kbit/s
Memory Type	Non-volatile memory (NVM), read/write
Data Retention	100,000 cycles
Write Endurance	50 years
SIO Enabled Memory	512 bit of user memory to store a PACS SIO
Typical Read Range	Up to 5 meters - depends on installation conditions
Card Marking <sup>2</sup>	Laser engraving
Operates with	KIUHF: KU90UHF reader only
Warranty	KI4KSEUHF: KU90UHF, KR10SE, KR40SE & KRK40SE readers Lifetime warranty

1 Encoding choice and data rate are configured by the reader.  
2 High definition re-transfer printing is the ONLY recommended print process for the SIO enabled UHF Technology Smart Card.  
Use of direct to card or other printing processes will not produce acceptable results.

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Any questions? We would be happy to advise you.  
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