

- Uses internationally recognized Mifare contactless smartcard technology
- K-SECURE 13.56MHz contactless smartcard credentials provide the highest level of credential anticounterfeiting protection
- K-SECURE Mifare contactless smartcards comply with international interoperability (ISO14443) standards suitable for 3rd party applications (eg. logical network access and cashless vending)
- Regular HID 125kHz credentials simply transmit their card number in the open.
- Industry standard 26bit HID 125kHz credentials further expose the end-user to potential card duplication and easily ordered duplicate card and batch numbers.
- K-SECURE smartcard credentials work in combination with Keyscan's K-SMART reader.



HOW K-SECURE WORKS:

- 1) Card enters reader excite field
- 2) Card transmits an encrypted 'Max Secure Code' to the K-SMART reader
- 3) The K-SMART reader decrypts the 'Max Secure Code' and authenticates the provided code
- 4) The reader then completes a 3 pass authentication encryption/ decryption unlock algorithm with the card
- 5) The K-SECURE credential then transmits its secured access control identification
- 6) The K-SMART reader passes the cards access control identification to the controller using Keyscan's proprietary 36bit Wiegand protocol.

THE RESULT:

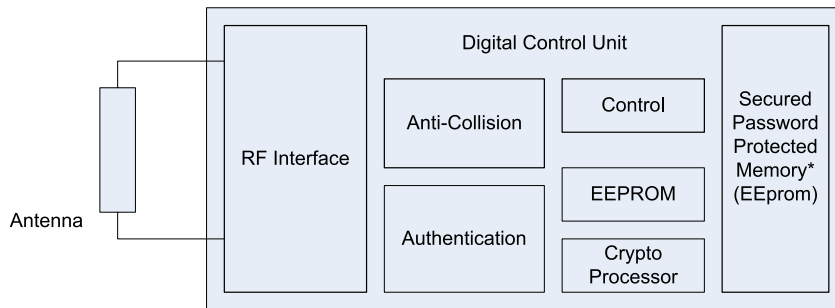
- Higher credential security and increased protection against card counterfeiting
- Keyscan assures no duplicate cards are created
- Keyscan's 36bit wiegand output from reader to panel adds a further level of security

Features and Benefits

- Uses industry proven MIFARE smartcard technology
- Provides credential anti-counterfeiting protection
- Removes concern of duplicate HID 125kHz 26bit cards

Card Memory & Security Algorithm Diagrams

K-SECURE Contactless Smartcard – Built in Security, Built in capability for support 3rd party applications



*Secured Memory slots are available for 3rd party applications. One memory slot is specifically secured and password protected for Access Control.

K-SECURE Security Algorithm



HID 125kHz cards or Mifare Nonproprietary cards



1. Card Enters Readers Excite Field
2. Card Transmits MAX Secure Code
3. Reader Validates Max Secure Code
4. Reader Initiates 3 Pass Authentication Algorithm, Sends Secure Sector Unlock Code
5. Reader Transmits Secure Sector Access Identification Code
6. Reader Passes Card Details using 36bit Wiegand Output to Keyscan Panel

K-SMART Reader



6) 36bit Wiegand Output to Keyscan Panel

KEYSCAN INC.

901 Burns Street East
Whitby, Ontario, Canada L1N 6A6
Telephone: 905-430-7226 Facsimile: 905-430-7275
Toll Free: 1-888-539-7226 (Canada/USA)
Web: www.keyscan.ca

Rev.:03-28-2008

Want more information? Contact your local representative at: