

Keyscan K-SECURE

High security contactless credentials



*Keyscan High
security
credentials*

High security smartcard credentials for use with Keyscan K-SMART readers

Keyscan's K-SECURE is equipped with numerous anti-counterfeiting and card anti-duplication technologies. As with the K-SMART reader, Keyscan has layered its own robust AES multi-layer encryption technology onto the K-SECURE card.

K-SECURE is designed for access control applications with the exceptional versatility to store third party applications including biometric templates. K-SECURE cards are also ISO printable!

- K-SECURE 13.56MHz contactless smartcard credentials provide the highest level of credential anti-counterfeiting protection
- K-SECURE contactless comply with international interoperability (ISO14443) standards suitable for 3rd party applications (eg: logical network access and cashless vending)
- Provides increased security compared to regular 125 kHz credentials which simply transmit their card number in an "open" environment
- 36-bit format for even more security over industry 26-bit 125kHz credentials which further expose the end-user to potential card duplication and easily ordered duplicate card and batch numbers
- K-SECURE smartcard credentials work with Keyscan's K-SMART readers
- Also available in a 1k smart fob (K-SF-1K) and 4-button RF transmitter (K-TX2-1k)

How K-SECURE smartcards work:

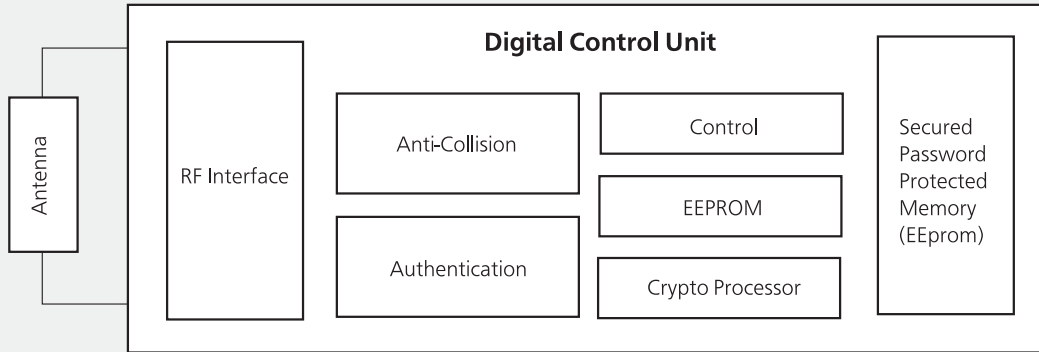
- 1 K-SECURE card enters a K-SMART reader "excite" field
- 2 Smartcard transmits an encrypted "Max Secure Code" to Keyscan's K-SMART reader
- 3 The K-SMART reader decrypts and authenticates the "Max Secure Code".
- 4 The reader then completes a 3-pass authentication, encryption / decryption unlock algorithm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



Features and Benefits:

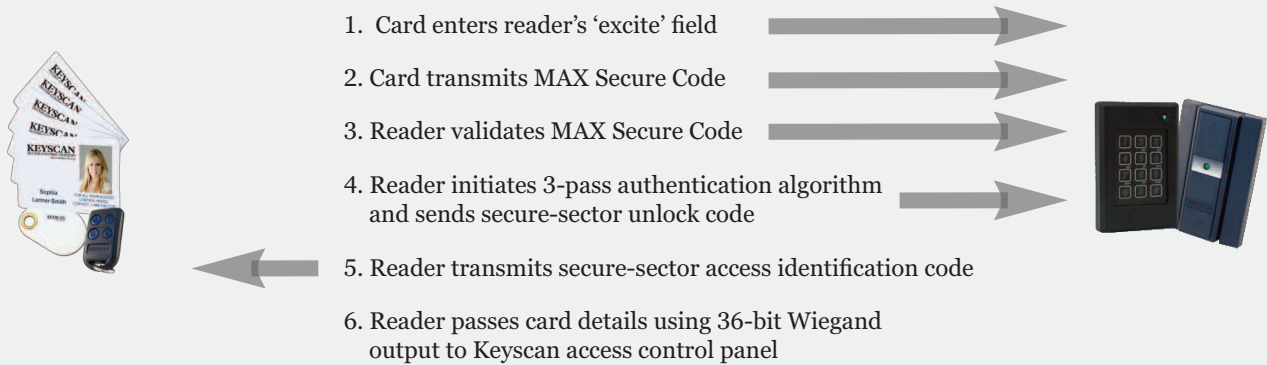
- 1 Uses industry renowned smartcard technology
- 2 Provides credential anti-counterfeiting protection

Card Memory and Security Algorithm Diagrams:



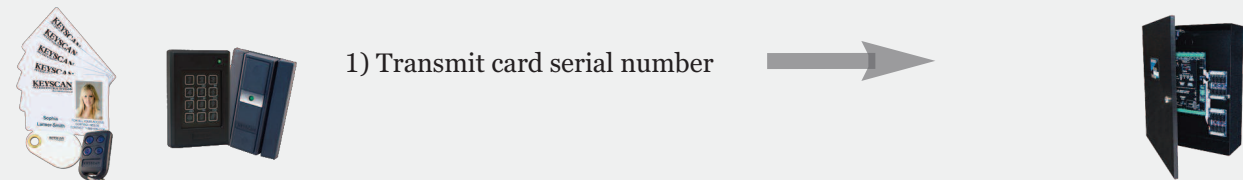
K-SECURE Security Algorithm

K-SMART Reader



125kHz card security algorithm

36 bit Wiegand output to Keyscan panel



Electronic Access & Data (EAD)
 Keyscan Inc.
 901 Burns St., E., Whitby, Ontario
 Canada L1N 0E6

1 888 539-7226 | www.keyscan.ca
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