

Product Overview & Datasheet

Last Revision: Jan 2023



Overview: S-Key Biometric Access Control Cards

Recent studies have shown that biometric access is five times more secure than 4-digit pins, the most common form of two-factor authentication for access control systems. S-Key aids organisations by significantly increasing their physical security levels, without the substantial investment typically required for changing existing infrastructure.

Business & Employee Benefits:

- MIFARE-based solution which works with NFC systems (e.g. HID, Salto, Paxton)
- Seamless integration with existing infrastructure: ISO14443 (NFC) compliant
- Removes risk of biometric data loss from centralised databases
- Elimination of security risk from lost or stolen cards
- Convenient and user-friendly solution

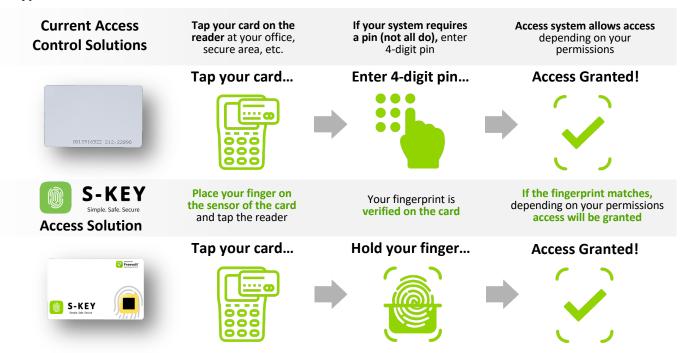
"The average total cost of a physical security breach was \$3.96 million in 2022."



IBM Security

2022 Report

Typical Access Control Transaction:



S-Key is easy to use, low cost and Available to Buy Now

- Tighter Control: maintain 2-Factor Authentication, with additional security layer possible (3FA)
- Removes Threat from Card Loss: only named individual can use the card to gain access
- Scalable & Easy to Adopt: works with existing access control systems, no changes required
- No Recharging or Changing Batteries: it works whenever in the vicinity of an access reader
- Better Privacy & GDPR Compliance: fingerprint hashed & stored on the card (never leaves the card)
- Improved Hygiene: secure, contactless entry now possible post COVID-19 pandemic

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Technical Information

MECHANICAL DATA	
Card Material	PVC Plastic
Card Dimensions	85.7 x 54.0 x 0.95 mm
Inlay Substrate Material	Thin film polyimide
Lamination Process	Proprietary cold lamination

ELECTRICAL DATA	
Antenna Type	Modified ISO1443 Class 1A
Passive/Active Components	Passive, no on-board power source
Operating Frequency	13.56 MHz
Supported Protocols	NFC ISO 14443A
Power Source	Freevolt Gen3 RFEH
Battery	No, powered by NFC field

FREEVOLT ENERGY HARVESTING	
Optimum Output Voltage	2.0 V
Peak Current	64 mA
Communications Range	0 – 75 mm
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TESTED CONDITIONS	
Environment	Factory/Lab
NFC Reader	HID OmniKey 5427, HID iClass R10
Testing Range	0 – 80 mm
Bend Test	Derived from EMVCo standard
Torsion Test	Derived from EMVCo standard
Water Resistant	Yes

ARTWORK/CUSTOMIZATION	
Custom Artwork	Available as part of lamination process, RGB colours supported. MOQs apply
Card Printers Supported	DTC and Retransfer, contact for model information

85.7 mm S-KEY Simple. Safe. Secure. 54.0 mm

(Thickness)

BIOMETRICS STORAGE	
Sensor	Fingerprint Cards FPC1321 / 1323
Applications processor	Nordic nRF52
External access to biometric data	None
Enrolment	On-card using NFC source for power
Rewritable	No, single enrolment only (Re-enrolment coming H2 2023)

COMMUNICATIONS SUPPORTED	
MIFARE Classic	EV1 all sizes
MIFARE DESFire	EV1/2/3 all sizes
LEGIC	ADVANT ATC4096-MP311 V2
HID iClass	Arriving 2023
Other	Secure Elements and other NFC chips on request

CARD HOLDERS	
Badge Holders	Works with existing ID card holders