

IDEX Total Access Card

IDX5610

A battery-free biometric access card that unifies physical entry, digital login, and ID – all in one secure solution.

The IDEX Total Access Card delivers fast, secure login with just a tap, combining FIDO2 biometric authentication and NFC technology for seamless multi-factor access. Every login qualifies as true two-factor authentication and is powered directly by the reader, with no battery required.



Key benefits

- Secure login across devices, web, and apps
- Eliminates friction and PIN-related risk
- Reduces IT helpdesk load (no password resets)
- Works with existing door access systems
- Prevents phishing and credential theft
- Improves audit trails and incident visibility

Key features

- Battery-free – power harvesting through NFC
- Industry leading fingerprint sensor
- Cutting edge biometric algorithms
- Fast fingerprint check, 0.3 seconds
- Fast enrolment: 6 touches, up to 2 fingers
- Flexible enrolment on device or via mobile app

Secure by design, private by default

- Fingerprint template based on 3D features, no stored images
- All fingerprint data stays on the card, with offline fingerprint matching
- End-to-end encryption (AES-256)
- CC EAL6+ secure element and Java Card Operating System
- Built-in compliance with GDPR and other global privacy standards



Technical specifications

The IDEX Total Access Card combines dual-interface biometric tech with a passive inlay and a secure, high-performance OS. Developed in partnership NXP, it integrates a certified secure element for best-in-class security. Manufactured by certified partners, the card complies with the strict security and interoperability standards required for MIFARE DESFire, FIDO, PIV, and PKOC credentials.

Physical card

Key components	
Secure element	Contactless card with NXP's P71D600, JCOP 4.5 Java Card OS, and preloaded IDEX Biometric Authenticator applet
Fingerprint sensor	IDX5419
Antenna & inlay	Custom panel with ID1-format inlay and ACTGG antenna
Flow	
Sensor	Fingerprint data acquisition → biometric processing → encryption → presentation → attack measurement
Embedded security	Template storage → biometric matching → presentation attack decision
Performance	
Biometric authentication time	<250 ms
False rejection rate (FRR)	<1.5%
False acceptance rate (FAR)	<1:20 000 people
Power operation	Low (as low as 1.5 A/m)

Supported standards

NXP JCOP OS
<ul style="list-style-type: none"> Java Card OS 3.0.5 GlobalPlatform Card specification 2.3.1 GlobalPlatform Amendment D1.1.2 (SCP03) GlobalPlatform Financial Configuration 1.0.2 Support for ECC and RSA asymmetric cryptography Secure communication between the fingerprint sensor and the secure element (including AES-128 encryption)
Supported Applets
<ul style="list-style-type: none"> IDEX FIDO2.1 NIST PIV Applet (FIPS 201, NIST SP 800-73) PSIA PKOC (version 1.0) MIFARE DESFire EV3 HID Seos Legic Neon
Communication interfaces
<ul style="list-style-type: none"> ISO 14443 Type A

Sensor module

Module	IDX5419 (with FW and IDEX Biometric Stack)
Sensor type	Off-chip capacitive
Processor	200 MHz ARM
Sensing area	9.5 mm × 9.5 mm
Enrollment	6 touches only
Finger support	Up to 2 fingers

Contact

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