



Introducing the BioCheck II fingerprint-enabled Trusted ID card that allows you to leave passwords behind, where you alone can unlock its many uses.

Use BioCheck II at attended or unattended kiosks or terminals in contactless or contact communication modes. It does not rely on battery and is always available, i.e., no more out-of-battery worry.

Just place your finger on the sensor, and insert the card into a contact reader, or place the card on a contactless reader, per usual practice.

Based on the MCS Multi-application Operating System (MOS), it can be used as an access card, e-signature card, medical card, loyalty card, transit card, and e-Wallet.

The BioCheck II secure element is the latest 32-bit STMicroelectronics ST31N-family secure microcontroller, security certified by Common Criteria and EMV. Fingerprints are stored within the SE and cannot be exported. During personalisation, fingerprint data is communicated in a secure messaging channel between the biometric chipset and secure element, i.e., end-to-end security.

The fingerprint sensor from IDEX Biometrics is highly durable and offers off-chip capacitive sensing technology with the preferred ridge matching biometric algorithm. The fingerprint sensing elements are separate from the chip that acquires the image and processes the biometric data. This ingenious design ensures excellent security, significantly higher image fidelity, superb noise immunity and market-leading usability under real-world conditions.

FEATURES

Fingerprint on card,
not on server

Bendable, flexible
construction

Contact and
contactless
communication

Ultra-low power
consumption

No battery or
supercapacitor

Compatible with
most smartcard
readers.

Affordable price

Designed for ID,
access control, login
token, loyalty,
micro-payment,
transport, and other
apps

SPECIFICATIONS

Multi-application Operating System (MOS)	<p>ISO File Manager GlobalPlatform Card Manager Early Lifecycle Manager Fingerprint match-on-card ICAO Machine Readable Travel Document (ICAO Doc 9303, 8th Ed., 202x) ISO-compliant Driving License (ISO/IEC 18013) Secure Signature Creation Device (SSCD)</p>
STMicroelectronics ST31N600 Secure Element	<p>ARM® SecurCore® SC000™ 32-bit RISC core 16 Kbytes of User RAM 608 Kbytes of secure User high-density Flash memory RF energy harvesting NESCRIPT lite low power (LLP) coprocessor for public key cryptography algorithm Automatic CPU frequency adaptation for optimum power consumption CC EAL6+ and EMVCo certification</p>
IDEX IDX5407 Fingerprint Sensor	<p>TrustedBio System-on-Chip (SOC) on flexible polymer ARM® Cortex® MCU Finger sense area of 9.5 x 9.5 mm Sensor resolution of 345 dpi (pixel pitch of 73.6µm) Image array size of 128 x 128 pixels</p>
Communication	<p>Contact : ISO/IEC 7816-3, T=0 and T=1, up to 600 kbps Contactless : ISO/IEC 14443 Type A, 106 kbps; ISO/IEC 18092 NFC passive card mode Parameter and protocol selection (PPS) Extended length APDU, up to 1,024 bytes</p>
Compliance	<p>ICAO RF Protocol and Application Test Standard for eMRTD BSI TR-03110 Test plan for eMRTD Application Protocol and Logical Data Structure ISO/IEC 10373-6 contactless analog and protocol test standard Common Criteria EAL 4+ MRTD protection profile GlobalPlatform Compliance Test Program (upon customer request) EMVCo Card Level 1 Protocol (upon customer request)</p>
Card	<p>Dimensions: 85.6 cm x 54 cm x 0.76 mm (ID-1) PVC plastic card body</p>