



CREDENCE ONE

A CREDENCE ID PRODUCT

The Ultimate Open Mobile Biometric Platform



Credence One™ is an elegant combination of biometrics, credentials and mobile technology, placing the power of mobile identity into the hands of agencies that need it the most.

Credence One features a fingerprint scanner, a 5MP camera with flash and a smart card reader running on the Android™ operating system with a state-of-the-art mobile chipset, creating endless application possibilities.

Designed to support multiple applications simultaneously, **Credence One** can empower a diverse group of agencies to build and deploy targeted applications for their desired objectives, work-flows and environments.

Because Everyone Counts

The Ultimate Open Platform



Credence One is a completely integrated platform featuring the Android 4.3.1 operating system, a FIPS-201 certified 500dpi fingerprint sensor, a 5MP camera with flash and a contact / contact-less smart card reader.

Internal components boast a dual core 1GHz ARM A9 processor with an integrated communications combo providing 3G cellular, dual-band Wi-Fi, Bluetooth 4.0 & GPS.

The elegant and ergonomic design provides limitless applications for the diverse needs of end-users, while a truly open platform enables developers to build their own customized applications that can integrate with both current and legacy environments.

One Platform, Many Applications

- Benefit delivery, unemployment claims, support for poor/under privileged, natural & other disaster victims, voter ID, etc.
- Medical services (hospitals, medications, etc.) and insurance processing & claims.
- Durable transactions; e.g. property & automobile renting, purchase, etc.
- Banking, microfinance and commercial transactions.

Open

Our partners control the objective they want to achieve. By providing a sensible and easy to program platform, the device offers limitless applications.

Simple

As easy to use as your mobile phone, users can intuitively grasp the features of **Credence One** – without reviewing documentation or receiving training. Workflows are simple to follow and any novice user can learn how to use applications in minutes.

Ergonomic

Credence One is designed from the ground up with a thoughtful understanding of user requirements. Modern design features (similar to mobile phones) appeal to both novice and experienced users. A large touch screen, a forward-facing fingerprint scanner and a card reader all encourage natural and intuitive interaction, while the back panel shape and texture creates a secure grip in your hand.

Functionality

Technology

Customer Benefit

High Performance System

Processor: Cortex-A9,
Dual Core 1 GHz processor.

Dual-core application processors ensure that demanding applications are responsive & intuitive.

OPEN Operating System and Multi-Application Architecture

OS: Android™ OS 4.3.1
SDK: Java SDK for biometric functionality.
Biometric Algorithm: agnostic platform for onboard quality, template creation & matching.

Android's open source development platform reduces risk, obsolescence and vendor lock-in. Application development is exponentially accelerated because basic features are built into the OS. Additionally, multiple applications can be hosted on a single device, providing greater value.

High-Speed and Secure Memory

RAM: 1GB DDR2
FLASH: 8GB eMMC
SD card: Yes

1 GB RAM provides memory intensive applications, like biometric identification. eMMC memory built into the main board provides unparalleled combinations of high speed data I/O and security.

Multiple Connectivity

Cellular: UMTS/HSDPA/HSUPA at 850/900/1900/1800 MHz
Wi-Fi : 802.11 a/b/g/n 2.4 + 5 GHz
Bluetooth 4.0

Quad-Band cellular support ensures the Credence One can support world-wide networks. Latest generation Wi-Fi and Bluetooth capabilities open up abundant communication options.

Touchscreen Display

Size: 4.0" diagonal
Resolution: 480 x 800 (WVGA)
Touch panel: Capacitive 5-point multi-touch panel

Large display area and user interface is part of a highly mobile and ergonomically designed package that guarantees a pleasant, intuitive and efficient operator experience.

Most widely deployed silicon fingerprint sensor

Type: Capacitive
Image Size: 12.8 x 18.0 mm (256 x 360 pixels)
DPI: 508dpi
Classification: FAP 10
Certification: FIPS 201 PIV

Capacitive sensors provide many operational benefits compared to optical scanners on mobile devices. The image quality is very resilient to various environmental conditions commonly encountered in the field like sunlight, dust, dirt, residual latent prints, etc.

Contact and Contactless Smart Card Reader

Contactless Interface:
◦ read/write mode supporting ISO/IEC 14443A/B, MIFARE, JIS X 6319-4 (FeliCa1), ISO/IEC 15693
◦ passive initiator mode according to ISO/IEC 18092
Contact Interface:
◦ Friction type acceptor; average insert/remove cycles: 100,000
◦ Cards supported: ISO 7816 T=0, T=1, CAC and EMV

Compatible with most smart card standards, the smart card reader provides reliable support for wide range of card formats and card types.

Integrated Camera

Resolution: 5 MP
Autofocus: Yes
Flash: Yes

An Android integrated camera gives users an intuitive and familiar experience when capturing still images.

Full Day Battery Life

3,600 mAh Li-Ion battery

With one of the highest capacity batteries for devices in its class, the Credence One ensures full day performance.

Environmental

Operating conditions:
◦ Temperature: 0°C to 50°C
◦ Humidity: 10 % < RH < 90 % (non-condensing)
Storage conditions:
◦ Temperature: -10°C to 60°C
◦ Humidity: 5 % < RH < 95 % (non-condensing)
Scratch Resistant Glass: Yes.

Credence One can be operated in a wide range of environmental conditions, allowing for global deployment.

A Revolution in Mobile Biometric Transactions

The Global National eID Industry Report indicates that by 2015, the number of countries issuing eIdentities will exceed those issuing traditional IDs by more than 4-to-1. As National eID programs around the world continue to grow, the role of biometrics is evolving to become the enabler for civil programs such as; social benefits distribution, financial inclusion and voter ID. Biometrics offers robust and secure identity verification to the governing agencies while simplifying and easing the transaction experience for end-users.

As the use of biometric technology has evolved, legacy identity management products have failed to keep pace with modern trends. In place of a ground up product design, most products in the current market were



originally created for military use and are now inefficiently repurposed for civil applications. **Credence One** converges the rapid evolution in mobile smart phone technology with state-of-the-art biometrics.

Credence One is based on the premise that, in order to bring wide-scale adoption of biometrics to every day transactions, it is essential that the user experience mirrors today's modern consumer electronic devices – such as smart phones and tablets. Advances in mobile technology have changed the way people interact and relate to these devices. By aligning the experience of biometric devices with the familiarity of modern smart devices, we can ensure that technology will be widely adopted and benefits realized.

Credence One is designed, engineered and assembled in California, USA