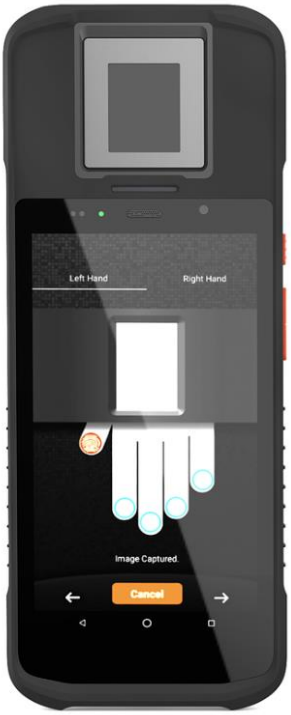
CREDENCE ID

Credence-3™

User Manual

Version 2.0



Introduction

Credence-3 is an improved next generation biometric and credential reading identity solution that places the power of mobile biometric enrolment & authentication into hands of users in the most demanding environments.

This rugged platform features a 5.5-inch display, a 2.0GHz quad-core Single Board Computer (SBC) with 4GB-RAM/16GB-eMMC and a stronger mechanical enclosure that all work together to achieve MIL-STD-810H (formerly 810G) United States Military Standard. Credence-3's FAP-30 fingerprint sensor, dual interface smartcard reader and 13MP optical camera seamlessly support all enrollment and verification applications.

https://www.credenceid.com/credence3-identifier-biometric-reader

Credence-3™

About this User Guide

Thank you for purchasing your Credence-3™ for your biometric project. This document explains how to use the device and the most important features.

You will find the product specification (Technical Specification) and physical description (Credence-3™ at a glance) as well as an introduction to the recommended first steps to perform before using the device (Setting Up Credence-3™). It will also guide you through OS upgrade and device particular functionalities testing.

Document Scope

The purpose of this document is to present the functionalities of the Credence-3™ to new users. However, as the Credence-3™ is running an Android 11 OS including Google software suite, it is not possible to cover all the features of the phone and particularly of the OS. Most of the standard Android operations are out of this document scope.

A section is dedicated to developers and shows how to activate the developer options. However, further information about the Credence Software Development Kit is available on GitHub at https://github.com/CredenceID/Credence-ID-DeviceSDK-Jar.

Audience

This document is dedicated to Credence-3™ new users that are working on a Biometric project where the Credence-3™ will be used as a biometric and credential reading platform. All the operators, developers and device owners will find valuable information about the device.

Technical Specifications

High Performance computational system	Mediatek Helio A22 MT6761 SoC Quad Core A53 @2.0GHz

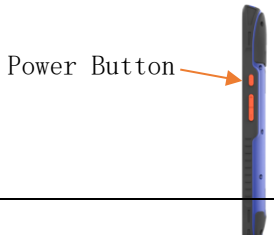
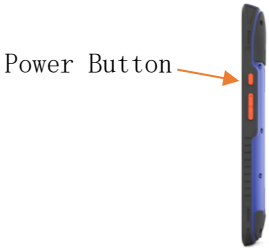
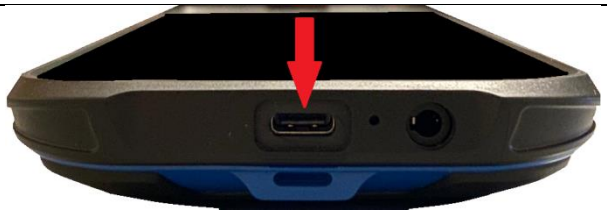
OPEN yet Secure Operating System and Multi-Application Architecture	Google Certified, GMS – Android™ 11 Operating System, Java SDK for biometric and credential (SmartCard) functionality Over-The-Air (OTA) updates for OS and SDK
High-Speed and Secure Memory	**Onboard storage:** 16GB eMMC **External SD Card slot**: up to 128 GB SD Card (purchased separately) supported **RAM**: 4GB LPDDR4
Multiple Connectivity Optiions	**Wi-Fi**: 8.11a/b/g/n/ac 2.4 + 5GHz **Bluetooth**: 5.0 BR/EDR/LE (Compatible with Bluetooth 1.x, 2.x, 3.x & 4.0) **3G** - WCDMA: B1/2100 ; B2/1900 ; B5/850 ; B8/900 **3G** - TD/SCDMA: B34/B39 **LTE**: - **USA**: B2, B4, B5, B12,B13,B14, B17,B66 - **EU**: B1, B3, B20 - **Africa/Southeast Asia**: B1, B2, B5, B8, B19 **Dual SIM** **GPS**: Standalone multi-GNSS (GPS, GLONASS, and Galileo) engine with active antenna
Touchscreen Display	**Size**: 5.5-inch diagonal **Resolution**: 720x1280 Pixels **Type**: Capacitive multi-touch panel
Integrated FBI PIV Certified FAP 30 Single-Finger Scanner	**Type**: LES (Light Emitting Sensor Technology) **Image Capture Size**: 0.8 x 1.0 inch **DPI**: min 500dpi **Classification**: FAP 30 **Certification**: PIV 071006, FIPS 201, FAP 30 / Certified to Mobile ID Requirements
Contact and Contactless Smart Card Reader	**Contactless Interface**: Read/write mode supporting ISO/IEC 14443A/B MIFARE Read/write mode supporting MIFARE **Contact Interface**: Acceptor: Friction Insert/remove cycles: 100,000
Integrated Camera	**Resolution**: 13 Megapixel **Autofocus**: Continuous focus and Touch-to-focus **Flash**: LED
Easy to Expand	USB-C port with USB-On-The-Go (USB-OTG) support.
Fast Charge and Full Day Battery Life	6,400 mAh Li-Ion battery (largest in its class) Fast charging with Certified worldwide fast charger included
Environmental conditions	**IP Rating**: IP65 **Shock resistance**: MIL-STD-810H compliant

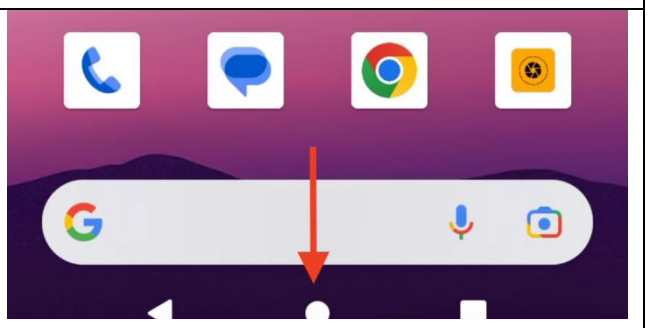
Dimensions	206 mm X 86 mm X 20 mm, 354 grams
Working temperature	-10℃~60℃
Working voltage	3.4V~4.35V

Credence-3 at a glance

Setting Up Credence-3

Basic Credence-3 operation

To turn on Credence-3: Press and hold the power button on the right side of Credence-3 for two seconds. After a few seconds, the display will turn on. Your battery may require an initial charge. If so, plug the supplied USB cable into the power port on Credence-3's bottom side and the charger into a wall outlet.	
To turn off Credence-3: Press and hold the power button on the device's right side and then select the action you want to take - Power Off, Reboot, Sleep.	
To charge Credence-3: Plug the supplied USB cable into the power port on Credence-3 bottom side and the charger into a wall outlet.	
To install SIM & SD Cards: To pop open the SIM tray, insert a paper clip or a SIM-eject tool into the hole beside the tray. Push in, towards the Credence-3. Place the new SIM card into the tray—it will fit only one way, because of the notch. Then insert the tray into the device completely and in the same orientation that you removed it. The tray also fits only one way.	

To insert a Contact Cards: To pop open the contact card reader rubber, insert your fingernail in the left corner of the rubber, then pull up the rubber cover to release it. The contact card slot will be visible. The contact card should be inserted with the chip facing up (once that the card is inserted the chip will be behind the fingerprint reader module)	
To insert Headphones: Plug the male headphones jack into the female jack on Credence-3 bottom side	
How to Find Applications: From the bottom of the screen, swipe up to view installed apps	

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

oReorient or relocate the receiving antenna.

oIncrease the separation between the equipment and receiver.

oConnect the equipment into an outlet on a circuit different from that to which the receiver is connected.

oConsult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1)this device may not cause harmful interference, and

(2)this device must accept any interference received, including interference that may cause undesired operation.

Shielded cables must be used with this unit to ensure compliance with the Class B FCC limits.

Specific Absorption Rate (SAR) information

The SAR limit of USA (FCC) is 1.6 W/kg averaged over one gram of tissue. This model (FCC ID: 2AMBZ-CT3-16-4G-011) has also been tested against this SAR limited. The highest SAR value reported under this standard during product certification for use at the ear is 0.42 W/kg and body is 1.28 W/kg.Place the product at least 10mm away from your body.

The use of belt clips, holsters and similar accessories should not contain metallic components in its assembly.

The device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite system