

Industrial Tablet

P80 User Manual



Comes with the Google™ app and Google Chrome™
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Chapter 1 Product Intro

1.1 Intro

Chainway P80 with Android 13 is a newly upgraded rugged tablet that has abundant functions. With its powerful Octa-core CPU, 8-inch high definition screen, 8700mAh battery and comprehensive data capture options like UHF RFID, barcode scanning, fingerprint recognition, NFC, etc., you can find this easy-to-deploy device a valuable helper to increase productivity in retail, logistics, warehousing, identity verification, etc.

1.2 Precaution before using battery

- Do not leave battery unused for long time, no matter it is in device or inventory. If battery has been used for 6 months already, it should be checked for charging function or it should be disposed correctly.
- The lifespan of Li-ion battery is around 2 to 3 years, it can be circularly charged for 300 to 500 times. (One full battery charge period means completely charged and completely discharged.)
- When Li-ion battery is not in use, it will continue to discharge slowly. Therefore, battery charging status should be checked frequently and take reference of the related battery charging information on the manuals.
- Observe and record the information of a new unused and non-fully charged battery. On the basis of operating time of new battery and compare with a battery that has been used for long time. According to product configuration and application program, the operating time of battery would be different.
- Check battery charging status at regular intervals.
- When battery operating time drops below about 80%, charging time will be increased remarkably.
- If a battery is stored or otherwise unused for an extended period, be sure to follow the storage instructions in this document. If you do not follow the instructions, and the battery has no charge remaining when you check it, consider it to be damaged. Do not attempt to recharge it or to use it. Replace it with a new battery.
- Store the battery at temperatures between 5 °C and 20 °C (41 °F and 68 °F).

1.3 Charger

The charger type is PWR series, output voltage/current is 5V DC/2A.
The plug considered as disconnect device of adapter.

1.4 Notes

Note:

Using the incorrect type battery has danger of explosion.
Please dispose the used battery according to instructions.

Note:

Due to the used enclosure material, the product shall only be connected to a USB Interface of version 2.0 or higher. The connection to so called power USB is prohibited.

Note:

The adapter shall be installed near the equipment and shall be easily accessible.

Note:

The suitable temperature for the product and accessories is
- 20°C to 50°C.

Note:

CAUTION RISK OF EXPLOSION IF BATTERY IS REPLACED
BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES
ACCORDING TO THE INSTRUCTIONS.

Chapter 2 Installation instructions

2.1 Appearance



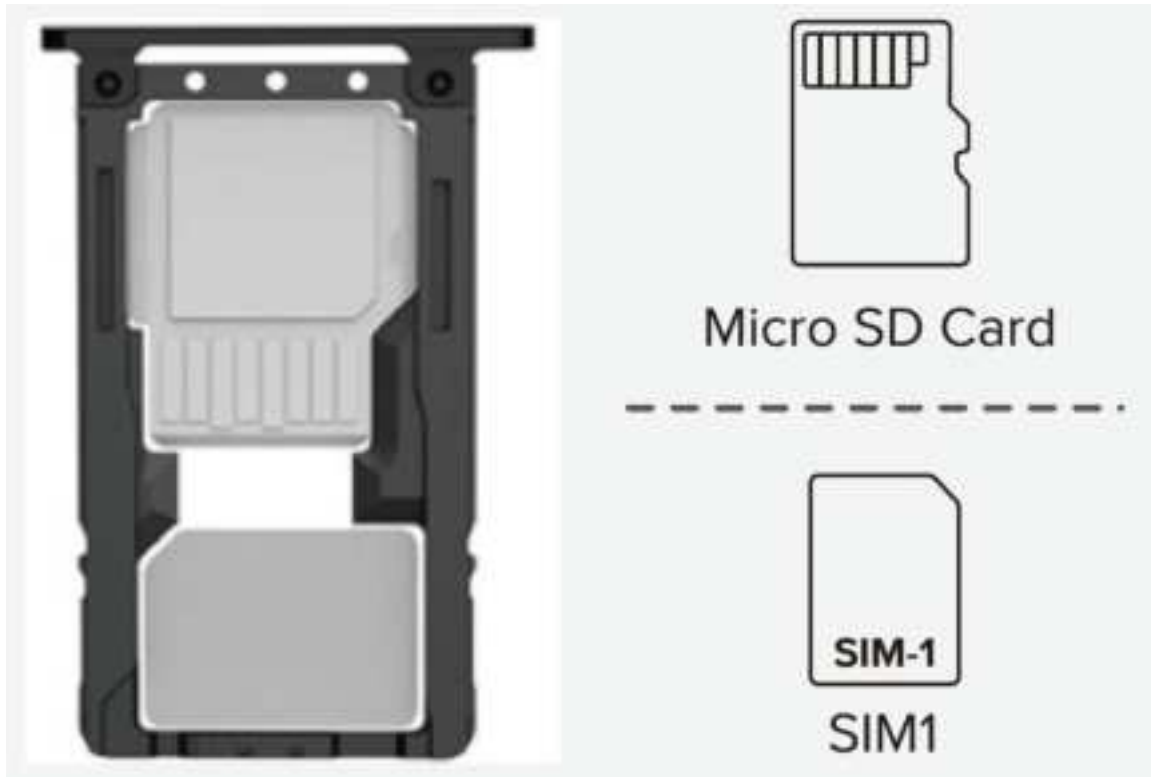


Function Guide

1	NFC
2	Power Button
3	SCAN Button
4	Volume Setup
5	Fingerprint
6	SIM/TF Card Slot
7	TYPE-C Port

2.2 Install Micro SD and SIM cards

The cards sockets are showing as follows:



2.3 Battery charge

By using USB Type-C contact, the original adaptor should be used for charging the device. Make sure not to use other adaptors to charge the device.

Chapter 3 Call function

3.1 Calling numbers

1. Click icon .
2. Click number key to input phone numbers.
3. Click icon  to call.
4. Click icon  to end call.

3.2 Contacts

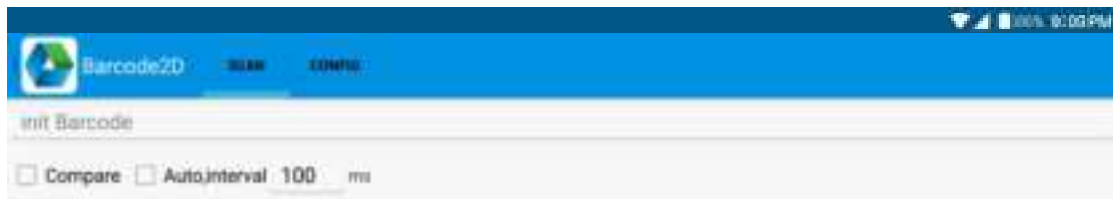
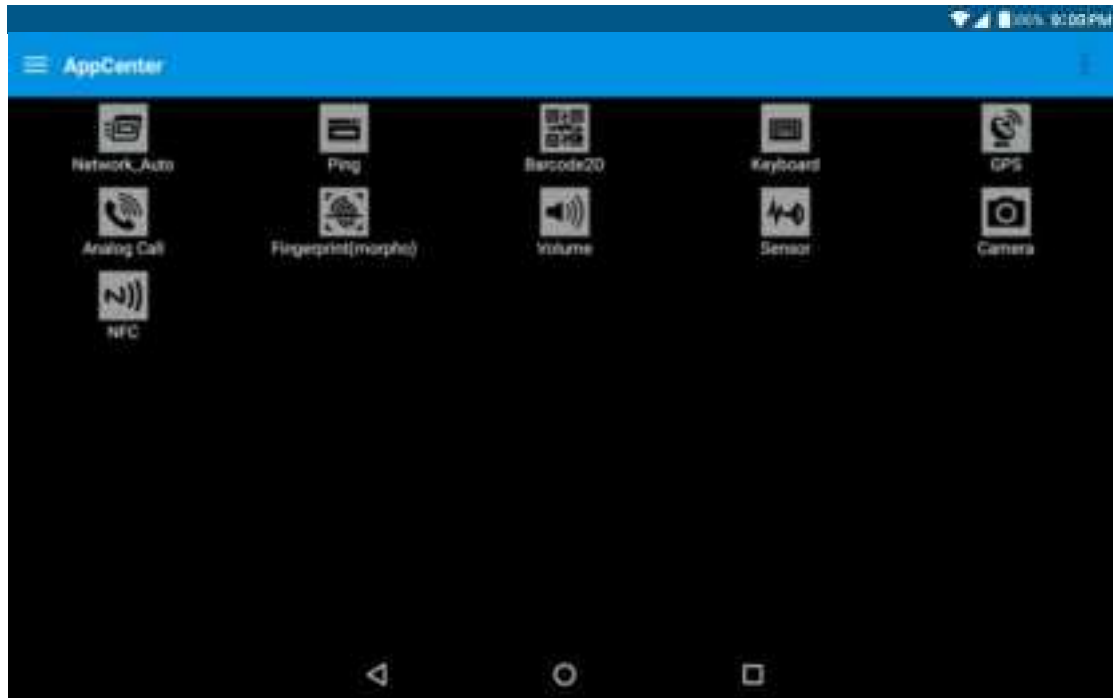
1. Click contacts to open contacts list.
2. Click icon  to add new contacts.
3. Click icon  to import/export contacts.

3.3 SMS and MMS

1. Click  to open message window.
2. Click  to input message receiver and contents.
3. Click  to send out messages.
4. Click  to add attachment pictures and videos.

Chapter 4 Barcode reader-writer

1. In App Center, to open 2D barcode scan test.
2. Press “SCAN” button or click scan key to start scanning, the parameter “Auto interval” can be adjusted.



1D barcode:



Correct



Incorrect

2D code:



Correct



Incorrect



Max. radiant power: 0.6mW

Wave length: 655nm

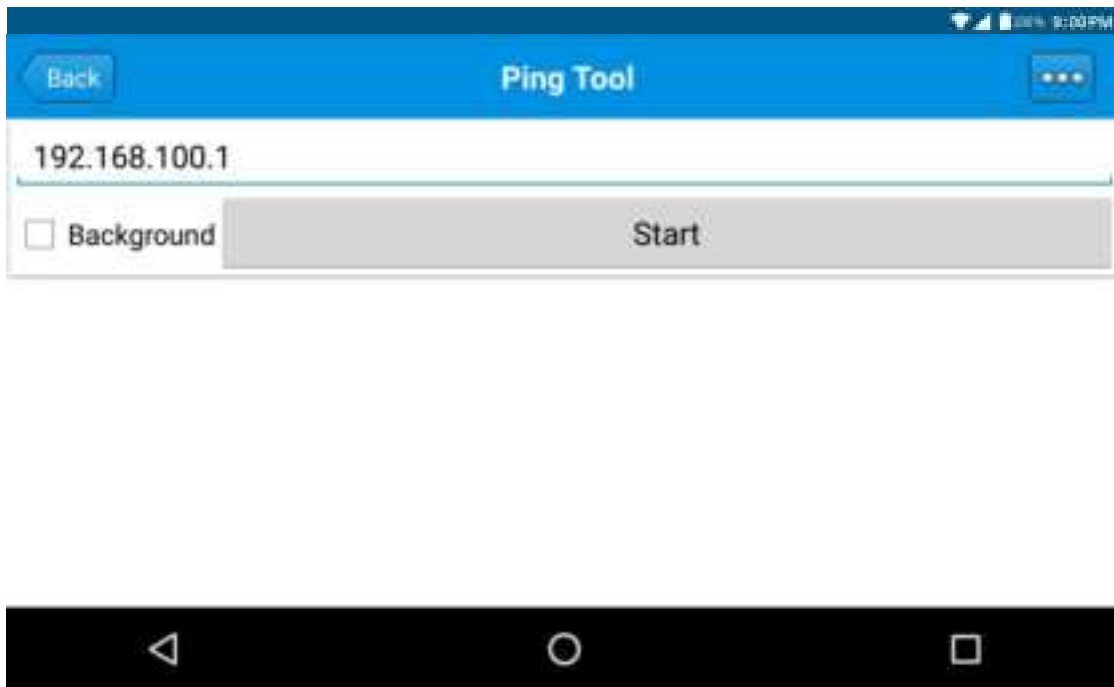
IEC 60825-1 (Ed.2.0).

21CFR 1040.10 and 1040.11 standard.

Chapter 5 Other functions

6.1 PING tool

1. Open “PING” in App Center.
2. Setup PING parameter and select external/internal address.



6.2 Bluetooth

1. Open “BT Printer” in App Center.
2. In the list of detected devices, click the device that you want to pair.
3. Select printer and click “Print” to start printing contents.



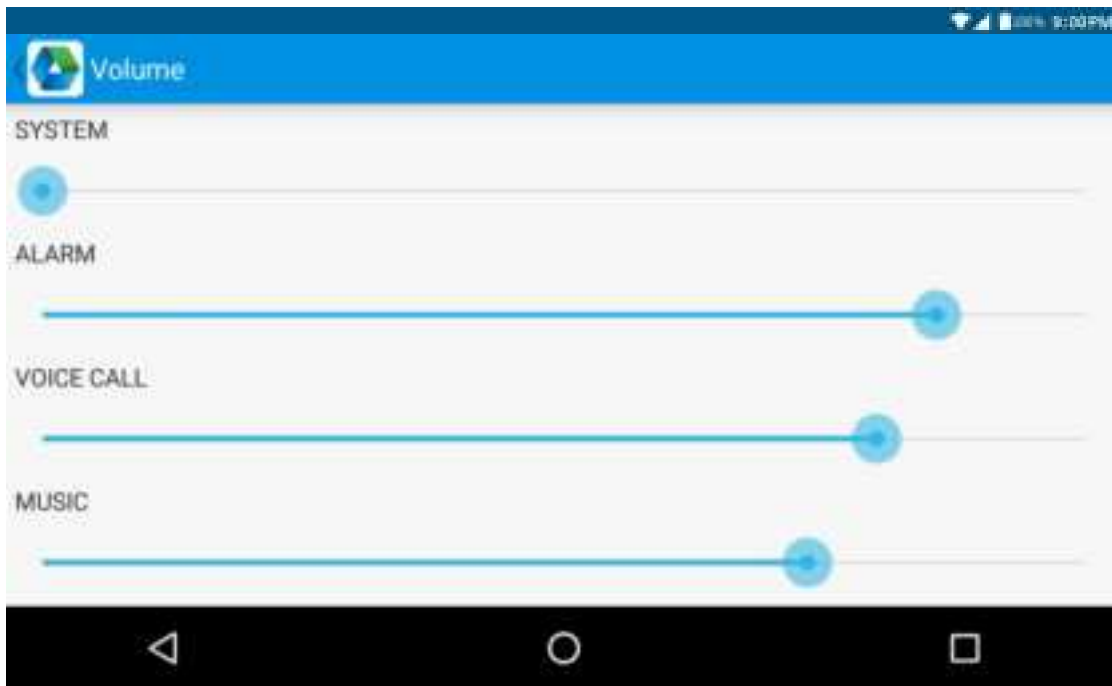
6.3 GPS

1. Click “GPS” in App Center to open GPS test.
2. Setup GPS parameters to access GPS information.



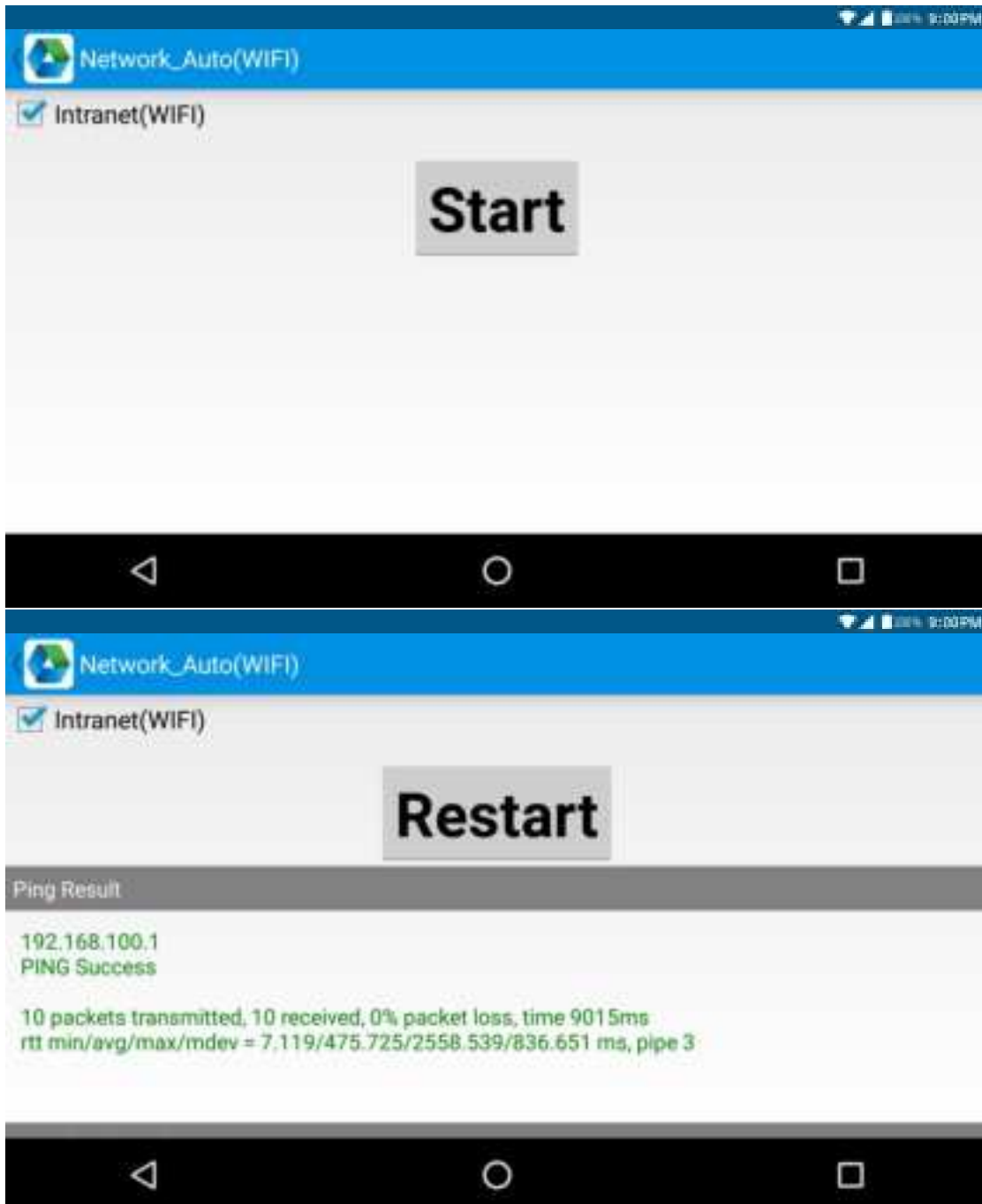
6.4 Volume setup

1. Click “Volume” in App Center.
2. Setup volume by requirements.



6.5 Network

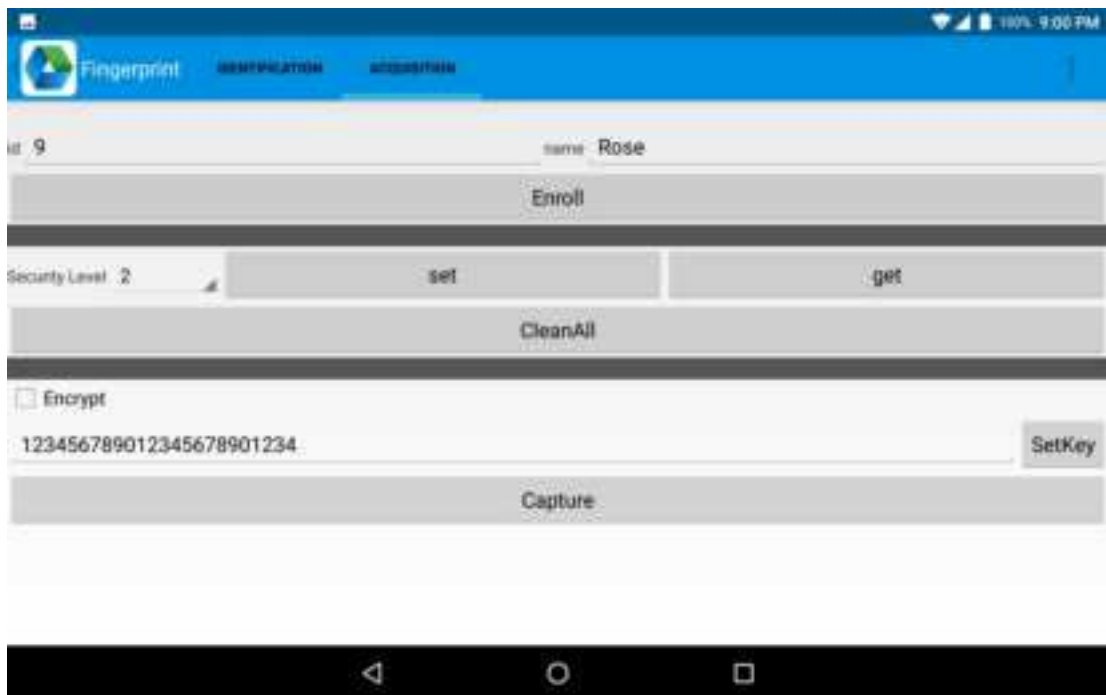
1. Click "Network" in App Center.
2. Click "Start" to check the IP address and PING information.



6.6 Fingerprint Module

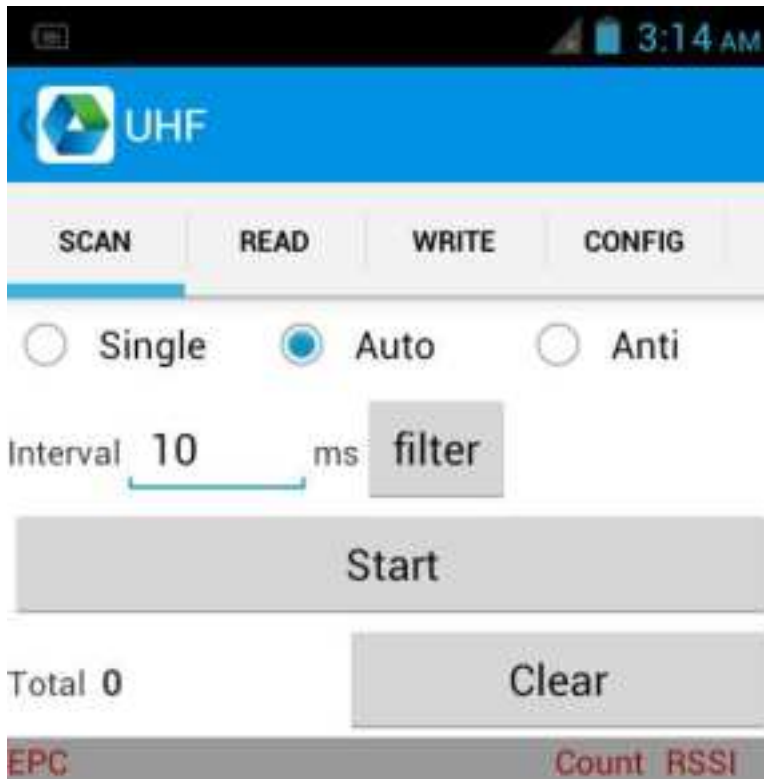
1. Click “Fingerprint(morpho)” in Appcenter.
2. Click “acquisition” after module has initiated successfully and click “CleanAll”.
3. Select “Security Level” to 0 and click “set” and “get”.
4. Click “Enroll” and put your finger on captor and follow the tips to start capture fingerprint.
5. After capture succeeded, click “Identification” to identify.





6.7 RFID

Click App Center, open “UHF” to read and write, kill and lock UHF tag.



Chapter 7 Device characteristic

Physical characteristics

Size	250.8mm x 152mm x 15mm/ 9.87 x 5.98 x 0.59in
Weight	680 g / 23.99 oz. (for standard version)
Display	8" IPS LTPS 1920x1200
Touch panel	Corning Gorilla Glass 3, multi-touch panel gloves and wet hands supported
Battery	Main battery: Li-ion, rechargeable, 8700mAh
Expansion	Supports up to 32 GB Micro SD card
Expansion Slot	1 slot for Micro SIM card, 1 slot for Micro SIM / TF card, Optional dual PSAM card slots
Audio	1 speaker, 1 microphone
Camera	Rear: 13MP autofocus camera with flashlight Front: 5 MP

Performance

CPU	2.0 GHz Octa-core
OS	Android 13
RAM	3 GB / 4 GB
Communication Interface	USB 3.0 Type-C, OTG
ROM	32 GB / 64 GB
Max. expansion	Supports up to 256 GB Micro SD card

User environment

Operating temp.	-20°C to 50°C
Storage Temp.	-40°C to 70°C
Humidity	5%RH - 95%RH non condensing
Sealing	IP65, IEC sealing standard
Drop specification	Multiple 1.5m/4.9ft drops to concrete across the operating temperature range

Communication

WWAN	2G: 850/1900MHz 3G: CDMA EVDO:BC0 WCDMA: B2/B5 4G: TDD-LTE: B40/B41 FDD-LTE: B2/B4/B5/B7/B12/B13/B17
WLAN	Support 802.11 a/b/g/n/ac,2.4G/5G dual-band, IPV4,IPV6;
WPAN	Bluetooth 5.0

Data collection

Barcode scanning	Zebra SE4710 (standard) Zebra SE4850 (optional)
RFID	NFC 13.56Mhz

Developing Environment

SDK	Chainway software develop kit
Language	Java
Develop	Eclipse/Android Studio

Appendix

FCC statements:

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.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications or changes to this equipment. Such modifications or changes 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:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC SAR statements:

The SAR limit of USA (FCC) is 1.6 W/kg averaged over one gram of tissue. Device types MC62 (FCC ID: 2AC6AP80P) has also been tested against this SAR limit.

This device was tested for typical body operations with the back of the device kept 0mm from the body.

To maintain compliance with FCC RF exposure requirements, when use of belt clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be Avoided.