SHENZHEN CHAINWAY INFORMATION TECHNOLOGY CO., LTD

Industrial Tablet

P80 User Manual

Catalog

Statement.....5
Chapter 1 Product Intro.....6
1.1 Intro.....6
1.2 Precaution before using battery.....7
1.3 Charger.....8
1.4 Notes.....9
Chapter 2 Installation instructions.....10
2.1 Appearance.....10
2.2 Install Micro SD and SIM cards.....12
2.3 Battery charge.....13
Chapter 3 Call function.....14
3.1 Calling numbers.....14
3.2 Contacts.....14
3.3 SMS and MMS.....14
Chapter 4 Barcode reader-writer.....15
Chapter 5 RFID reader.....18
Chapter 6 Other functions.....19
6.1 PING tool.....19
6.2 Bluetooth.....20
6.3 GPS.....21
6.4 Volume setup.....22
6.5 Network.....23
Chapter 7 Device characteristic.....24

Statement

2013 by ShenZhen Chainway Information Technology Co., Ltd. All rights reserved.

No part of this publication may be reproduced or used in any form, or by any electrical or mechanical means, without permission written from Chainway. This includes electronic or mechanical means, such as photocopying, recording, or information storage and retrieval systems. The material in this manual is subject to change without notice.

The software is provided strictly on an “as is” basis. All software, including firmware, furnished to the user is on a licensed basis. Chainway grants to the user a non-transferable and non-exclusive license to use each software or firmware program delivered hereunder (licensed program). Except as noted below, such license may not be assigned, sublicensed, or otherwise transferred by the user without prior written consent of Chainway. No right to copy a licensed program in whole or in part is granted, except as permitted under copyright law. The user shall not modify, merge, or incorporate any form or portion of a licensed program with other program material, create a derivative work from a licensed program, or use a licensed program in a network without written permission from Chainway.

Chainway reserves the right to make changes to any software or product to improve reliability, function, or design.

Chainway does not assume any product liability arising out of, or in connection with, the application or use of any product, circuit, or application described herein.

No license is granted, either expressly or by implication, estoppel, or otherwise under any Chainway intellectual property rights. An implied license only exists for equipment, circuits, and subsystems contained in Chainway products.

Chapter 1 Product Intro

1.1 Intro

P80 device is a industrial tablet that integrated with various features such as UHF RFID, barcode scanning, HF RFID/NFC, Iris and fingerprint recognition etc. It is configured with Andriod 7.1 OS and it possesses high reliability and expansibility. With a set of advanced data acquisition options, P80 can be operated in various industries to acquire precise and abundant datum automatically. Meanwhile, the device can match the options with staffs accordingly. The corporation which deployed P80 will realize the deployment work is simple and maintenance work will be remarkably decreased.

P80 is highly rugged, compact and durable. With IP65 water and dust proof capability, the device has met IEC sealing standard. Therefore, it can be operated by staffs such as railway inspector, road toll operator, vehicle inspector, delivery postman, power supply inspector, storage administrator, financial & insurance, police officers, security tracing etc. Wherever your staff' locations are, P80 can remain its connectivity with the system to make sure business in high-effective operating.

P80 industrial tablet adopted 4G LTE technology to realize multipath communication and calling function for field work, data exchange efficiency has been enhanced simultaneously. Therefore, P80 will bring the largest investment return for enterprises.

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 check 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 used, it will continue 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 GME10D-050200FGu,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 0-10℃ to 50℃.

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

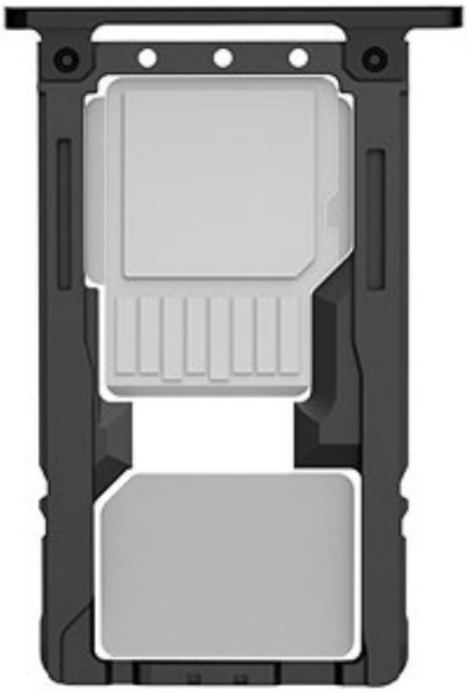
2.1 Appearance

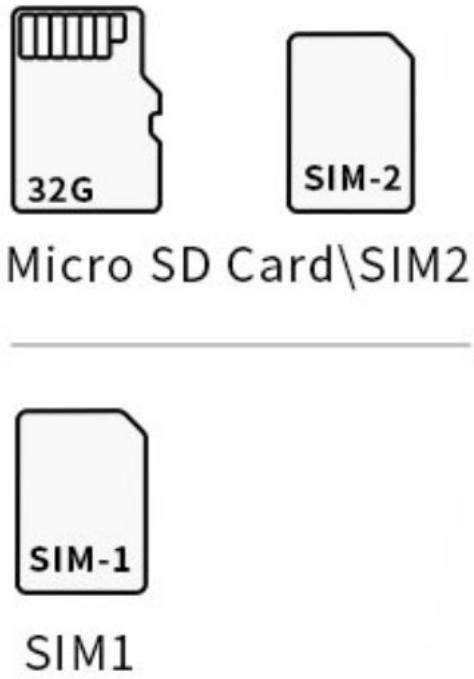
Function Guide

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

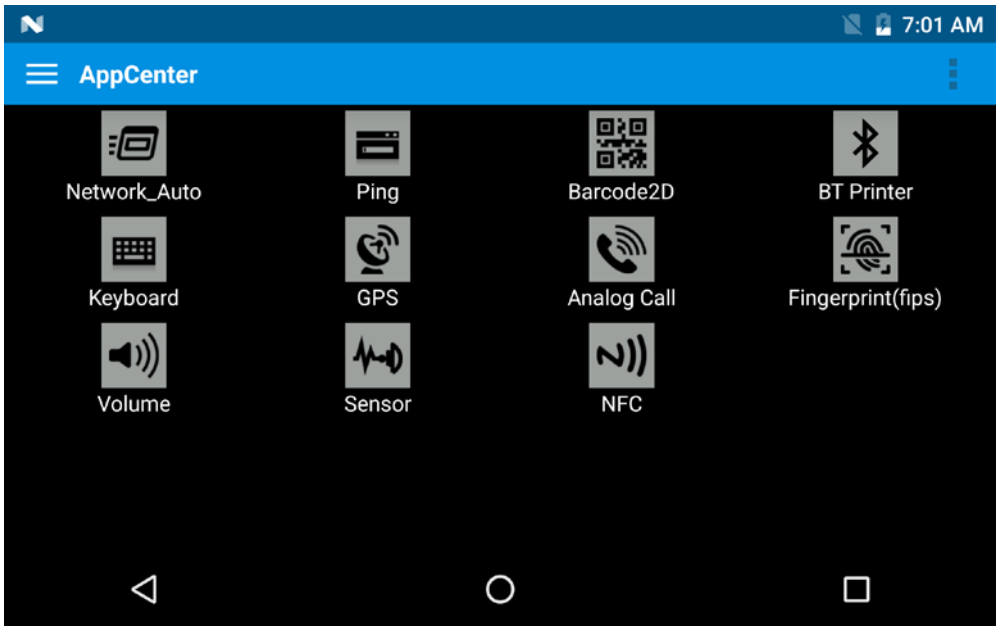
1. Click contacts to open contacts list.
2. Click icon to add new contacts.
3. Click icon to import/export contacts.

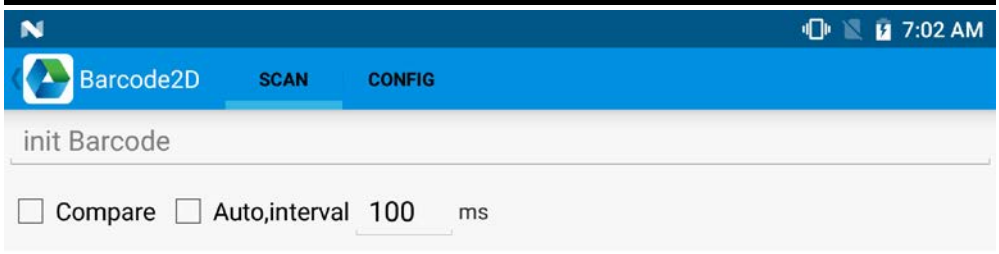
3.3 SMS and MMS

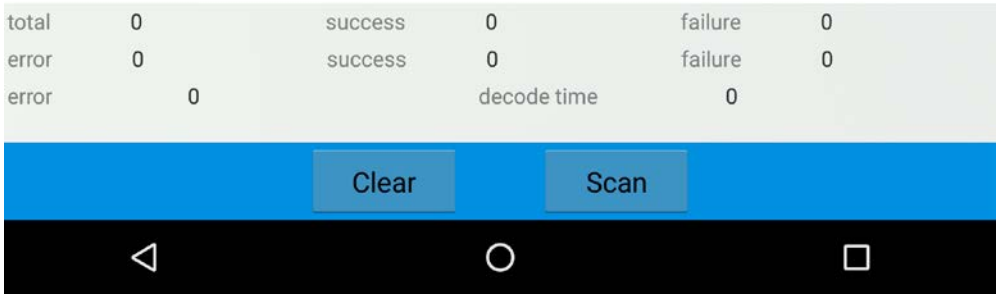
1. Click to open message window.
2. Click to input message receiver and contents.
3. Click to send out messages.
4. Click to add attachment pictures and videos.

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.







Caution: Please scan codes in correct way otherwise the scanning will be failed.

1D barcode:

Correct

Incorrect

2D code:

Correct

Incorrect

Max. radiant power: 0.6mW

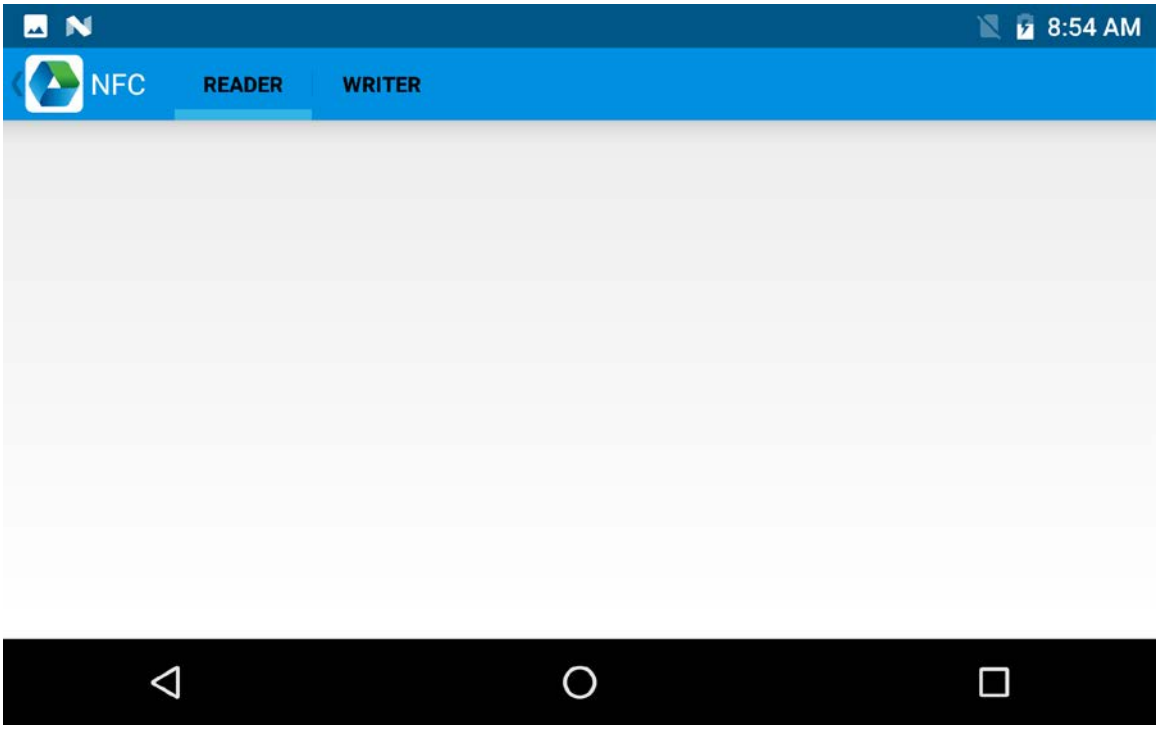
Wave length: 655nM

IEC 60825-1 (Ed.2.0).

21CFR 1040.10 and 1040.11 standard.

Chapter 5 RFID reader

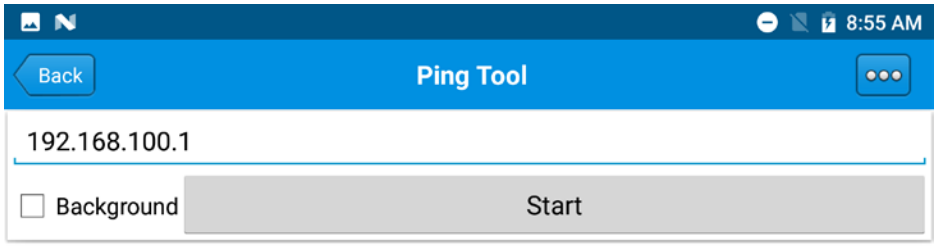
Click App Center, open “NFC” to read and write tag information.

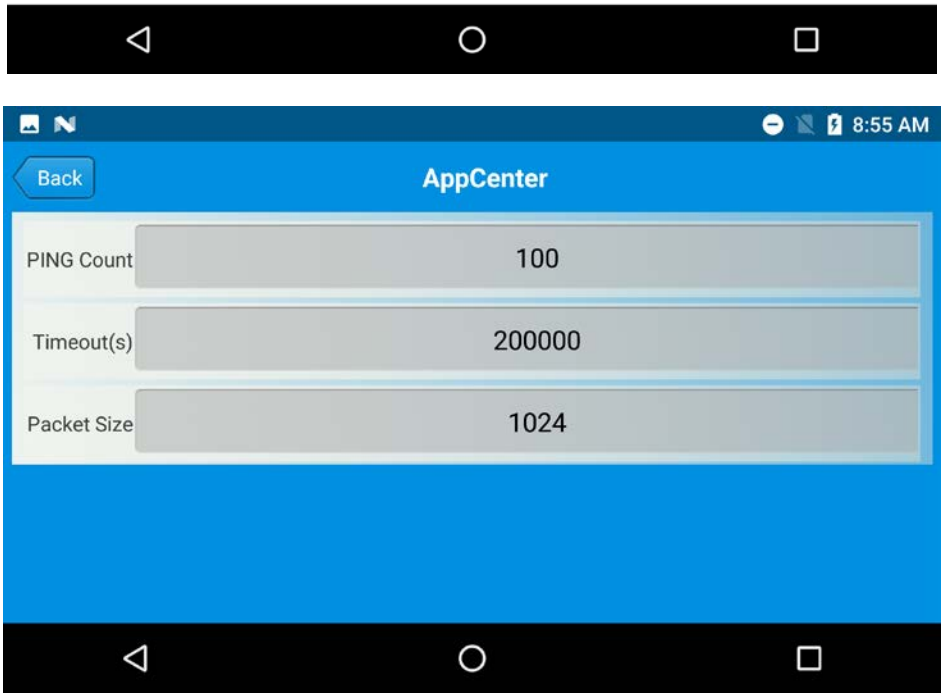


Chapter 6 Other functions

6.1 PING tool

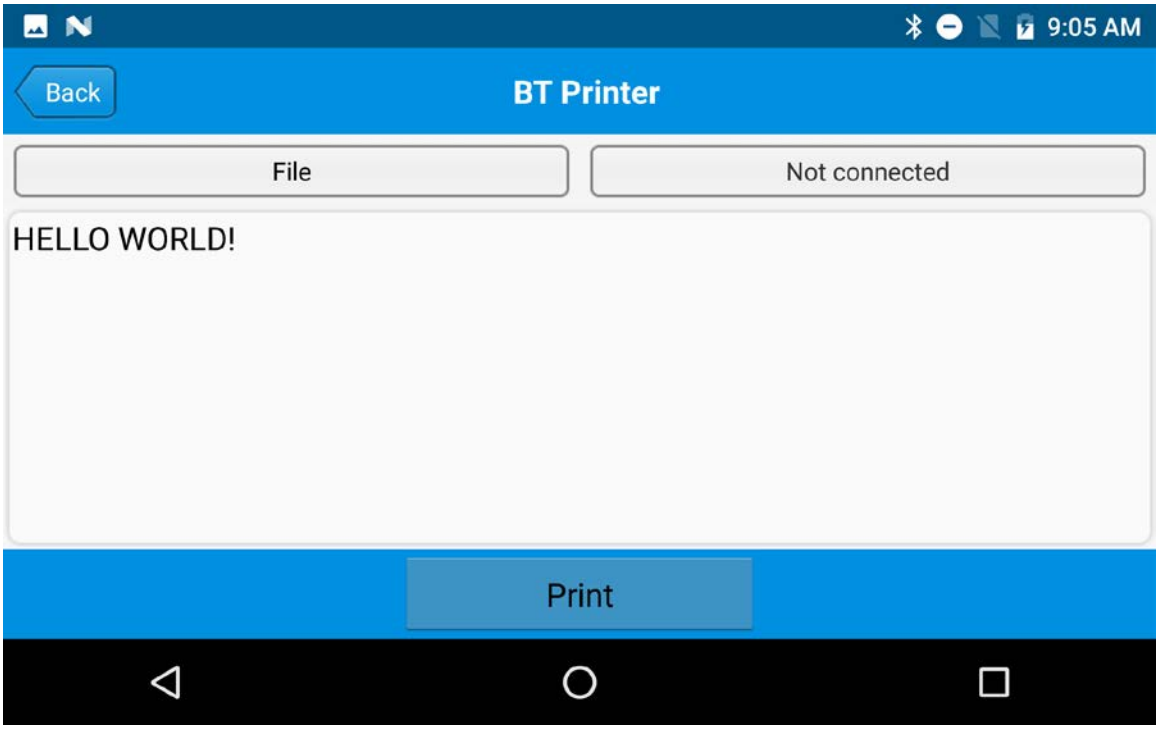
1. Open “PING” in App Center.
2. Setup PING parameter and select external/internal address.





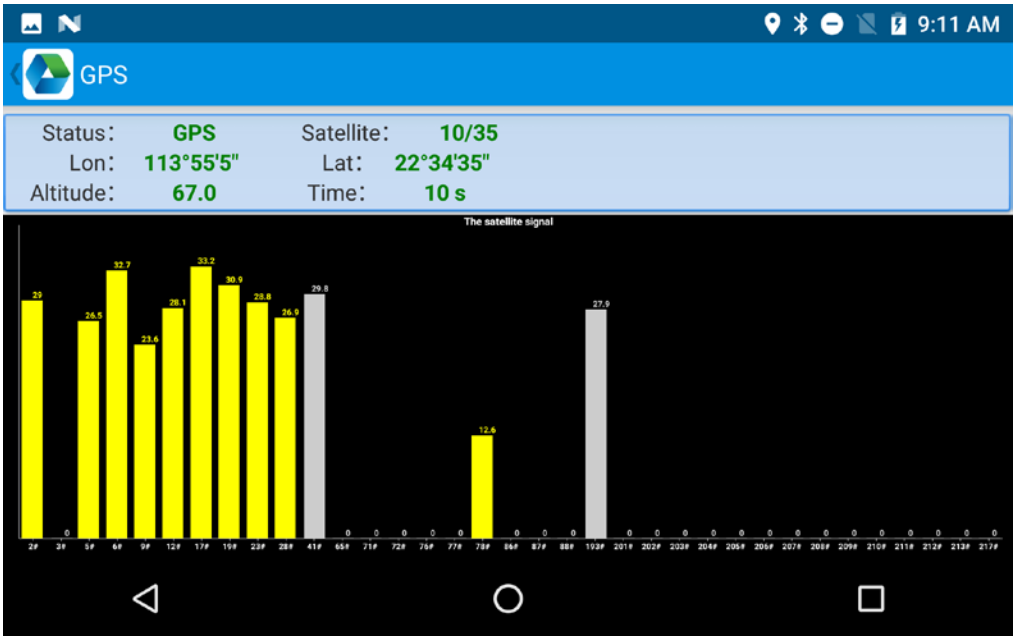
6.2 Bluetooth

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.



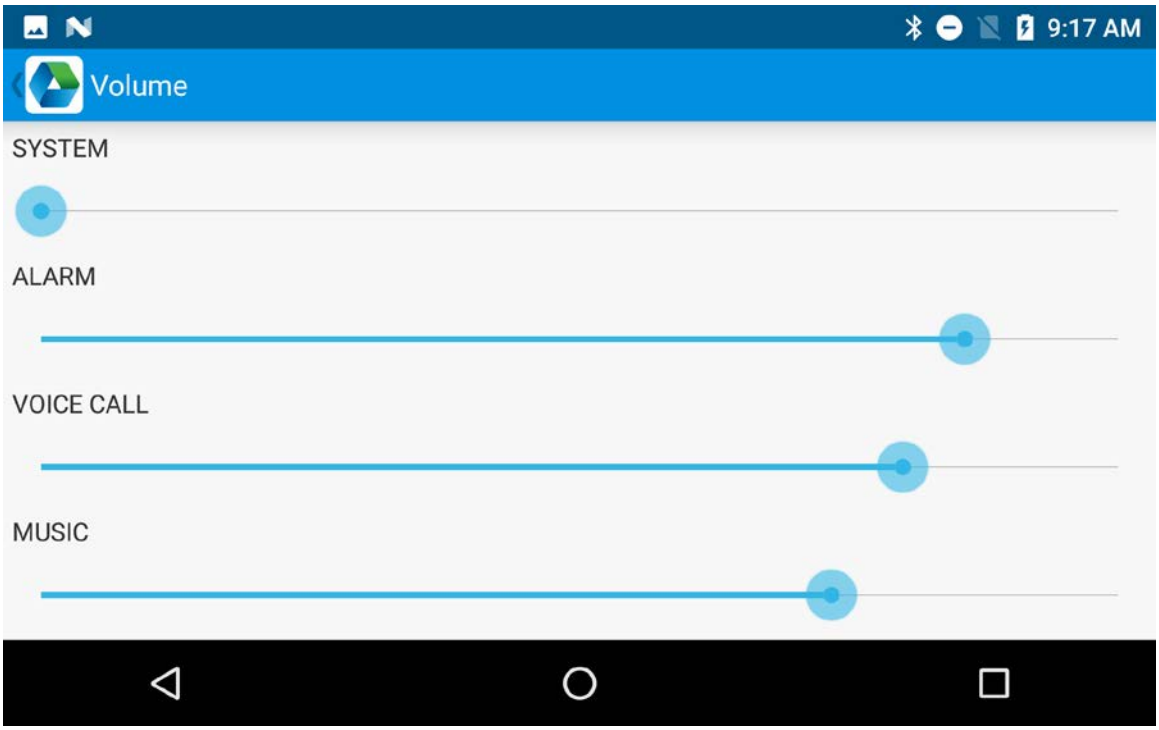
6.3 GPS

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



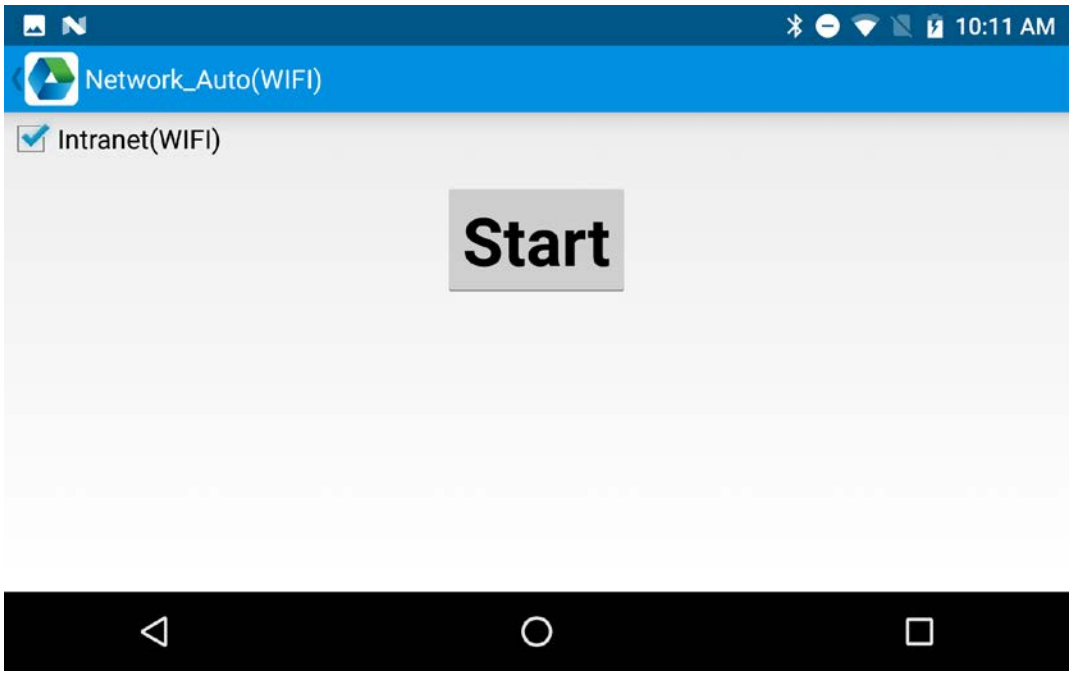
6.4 Volume setup

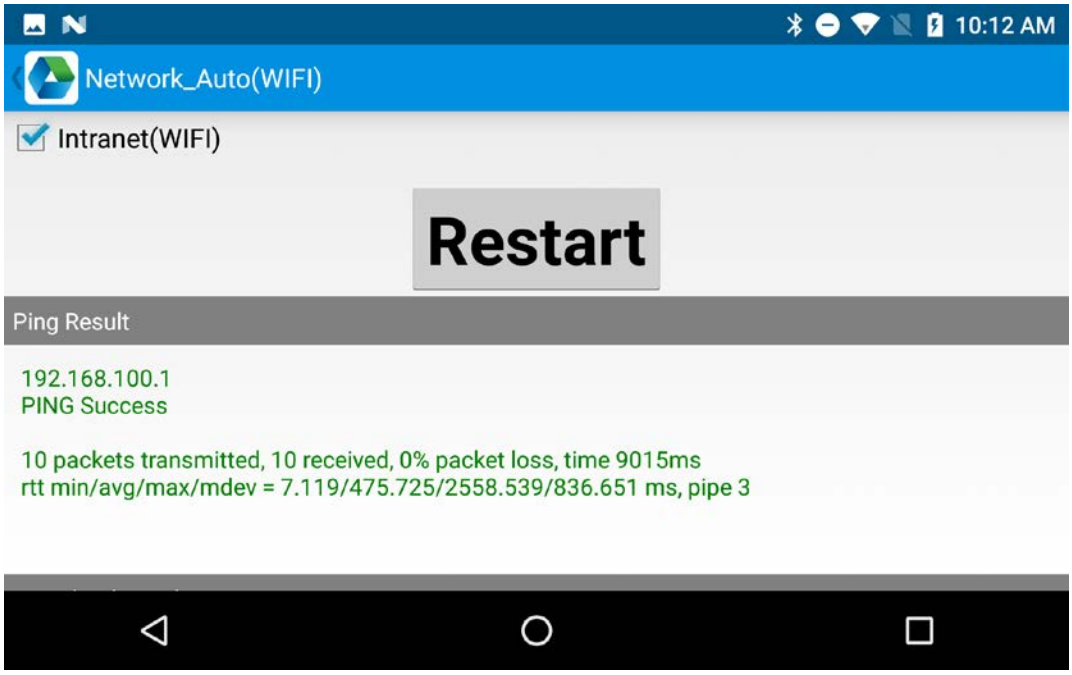
1. Click “Volume” in App Center.
2. Setup volume by requirements.



6.5 Network

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





Chapter 7 Device characteristic

Physical characteristics

Size	250.8mm x 152mm x 15mm/ 9.87 x 5.98 x 0.59in
Weight	700g/24.7oz
Display	8" IPS LTPS 1920x1200
Touch panel	Corning Gorilla Glass, multi-touch panel, gloves and wet hands supported
Battery	Main battery: Li-ion, rechargeable, 8000mAh
Expansion	Supports up to 32 GB Micro SD card
Expansion Slot	1 slot for SIM card, 1 slot for SIM or TF card
Audio	speaker, 2 microphones, voice call
Camera	13MP autofocus camera with flashlight

Performance

CPU	2.0GHz MSM8953
OS	Android 7.1
RAM	2GB RAM
Communication Interface	USB 3.0 Type-C, OTG
ROM	16GB
Max. expansion	Supports up to 32 GB Micro SD card

User environment

Operating temp.	-20℃to 50℃
Storage Temp.	-40℃ to 70℃
Humidity	5%RH - 95%RH non condensing
Sealing	IP65, IEC sealing standard
Drop specification	Multiple 1.2m/3.9ft drops to concrete across the operating temperature range

Communication

WAN	**EU:** 2G: 850/900/1800/1900MHz 3G: 850/900/1900/2100MHz 4G: B1, B3, B5, B7, B8, B20, B40 **US:** 2G: 850/900/1800/1900MHz 3G: 850/900/1700/1900MHz 4G: B2, B4, B5, B26, B41 **CN:** 2G: 900/1800MHz 3G: 900/1900/2000/2100MHz 4G: TDD-LTE: B38, B39, B40, B41 FDD-LTE: B1, B3, B8
WLAN	IEEE802.11 a/b/g/n/ac, 2.4G/5G dual-band, internal antenna
WPAN	Bluetooth 4.2/4.1+HS/4.0/3.0+HS/2.1+EDR

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