

PD602

6" Rugged Mobile Computing Device.

User's Manual

Version 1.0



2023.11.22



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Revision History

Version	Release Time	Description
1.0	2023.10	Initial release

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About This Manual

This user's manual provides the general information and installation instructions for the product. The manual is meant for the experienced users and integrators with hardware knowledge of personal computers. If you are not sure about any description in this manual, consult your vendor before further handling.

We recommend that you keep one copy of this manual for the quick reference for any necessary maintenance in the future. Thank you for choosing AMobile products.

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Declaration of Conformity

CE

Environmental Conditions

Device Operating Temperature: -10° C to 50°C

Device Storage temperature: -30° C to 70°C

Working humidity 10% ~ 90%RH

Hereby, AMobile Solutios Corp. Limited Taiwan Branch, declares that this Mobile Computing Device/ PD602, is in compliance with the essential Requirements and other relevant provisions of Radio Equipment Directive [2014/53/EU](#).

Environment friendly disposal

You can help protect the environment!

Please remember to respect the local regulations: hand in the non-working electrical equipment to an appropriate waste disposal center.

A warning that batteries(battery pack or batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.

CAUTION RISK OF EXPLOSION IF BATTERY IS RWPLACED BY AN INCORRECT TYPE.

DISPOSE OF USED BATTERY S ACCORDING TO THE INSTRUCTINS

Charge at constant current of 0.2C until voltage reaches 4.25V, then charge at constant voltage 4.25V till charge current reduce to 0.02C.

The following standards have been applied for the investigation of compliance:

Use careful with the earphone maybe possible excessive sound pressure from earphones and headphones can cause hearing loss.



The product shall only be connected to a USB interface of version USB2.0 or higher and that the connection to a power USB is prohibited.

Adapter shall be installed near the equipment and shall be easily accessible.

The RF distance between body and mobile phone is 5mm.

5G (if necessary)

Operations in the 5150-5250Mhz are restricted to indoor usage only.

Product Name:	6" Rugged Mobile Computing Device
Model No.:	PD602
Brand Name:	AMobile
Battery:	Manufacturer: Shenzhen cholipower Technology co.,Ltd Model No.: CLP1048 Rated Capacity:5000mAh 2nd 170mAh(Hot Swappable)
USB Cable:	Manufacturer: CHINGLUNG Model No.: 01.03.0012 Length: 1000mm

ETSI EN 301 489-1 V2.2.3

ETSI EN 301 489-3 V2.3.2

ETSI EN 301 489-17 V3.2.4

ETSI EN 301 489-19 V2.2.1

ETSI EN 301 489-52 V1.2.1

ETSI EN 301 511 V12.5.1

ETSI EN 301 908-1 V15.2.1

ETSI EN 301 908-2 V13.1.1

ETSI EN 301 908-13 V13.2.1

ETSI EN 303 413 V1.2.1

ETSI EN 300 330 V2.1.1

ETSI EN 301 893 V2.1.1

ETSI EN 300 328 V2.2.2

EN 62479: 2010

EN 50566: 2017/A1:2023

EN 50360: 2017/A1:2023

EN 62209-1: 2016

EN 62209-2: 2010

IEC 62133-2: 2017

EN 62471: 2008

EN 60950-1: 2006 +A11: 2009 +A1: 2010+A12: 2011+A2: 2013

EN 50332-1: 2013

EN 50332-2: 2013

EN 55032:2015+A11:2020+A1:2020

EN 55035: 2017+A11:2020

EN IEC61000-3-2:2019+A1:2021

EN61000-3-3:2013+A1:2019+A2:2021

BS EN55032:2015+A11:2020+A1:2020

BS EN55035:2017+A11:2020

BS EN IEC61000-3-2:2019+A1:2021

BS EN61000-3-3:2013+A2:2021

Manufacturer Name:	AMobile Solutions Corp
Manufacturer Address:	8F.-1, No.700, Zhongzheng Rd., Zhonghe Dist., New Taipei City 235, Taiwan
Operation Frequency:	<p>GSM/GPRS/EGPRS 900: Tx: 880-915MHz, Rx: 925-960MHz GSM/GPRS/EDGE 850: 824-849MHz (Not used in Europe) PCS/GPRS/EDGE 1900: 1850-1910MHz (Not used in Europe)</p> <p>WCDMA Band I: Tx: 1920-1980MHz, Rx: 2110-2170MHz WCDMA Band VIII: Tx: 880-915MHz, Rx: 925-960MHz WCDMA Band II: 1850-1910MHz (Not used in Europe) WCDMA Band V: 824-849MHz (Not used in Europe) WCDMA Band IV:1710-1755MHz (Not used in Europe)</p> <p>LTE Band 1: Tx: 1920-1980MHz, Rx: 2110-2170MHz LTE Band 3: Tx: 1710-1785MHz, Rx: 1805-1880MHz LTE Band 7: Tx: 2500-2570MHz, Rx: 2620-2690MHz LTE Band 8: Tx: 880-915MHz, Rx: 925-960MHz LTE Band 20: Tx: 832-862MHz, Rx: 791-821MHz LTE Band 26: Tx: 814-849MHz, Rx: 859-894MHz LTE Band 34: Tx/RX: 2010-2025Mhz LTE Band 40: Tx/RX: 2300-2400MHz LTE Band 41: Tx/RX: 2496-2690MHz (Not used in Europe) LTE Band 2: 1850-1910MHz (Not used in Europe)</p>
Operation Frequency:	<p>LTE Band 4: 1710-1755MHz (Not used in Europe) LTE Band 5: 823-850MHz (Not used in Europe) LTE Band 7: 2500-2570MHz (Not used in Europe) LTE Band 12: 699~716MHz (Not used in Europe) LTE Band 17: 704-716MHz (Not used in Europe)</p> <p>WiFi: 802.11 a/b/g/n/ac 802.11n HT40: 2422-2462MHz 802.11a/n/ac: 5150-5250MHz</p> <p>Bluetooth: BT5.2 2402-2480MHz GPS: 1.57GHz NFC: ISO/IEC14443A/B; ISO/IEC15693; Tags T1/2/3/4/5</p>

Max. RF output power:	GSM900: 33 dBm WCDMA FDD Band: 24 dBm LTE FDD/TDD Band: 23 dBm WiFi (2.4G): 9.45 dBm EIRP WiFi (5G): 9.40 dBm EIRP Bluetooth: 6.48 dBm EIRP NFC: 15.38 dB μ A/m
------------------------------	---

The RF frequencies can be used in Europe without restriction.

This product is intended for sale and application in a business environment.

				
AT	BE	BG	CZ	DK
EE	FR	DE	IS	IE
IT	EL	ES	CY	LV
LI	LT	LU	HU	MT
NL	NO	PL	PT	RO
SI	SK	TR	FI	SE
CH	UK(NI)	HR		

WLAN 5GHz band: for indoor use only.

	UK
--	----

WLAN 5GHz band: for indoor use only.

contact person

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tel: +33 (0)1 55 63 90 87

E-mail: info@arbor-france.com

The URL to the full DoC

<https://www.amobile-solutions.com/download.htm>

Emergency call

If any emergency arises, dial 112/911 (or other emergency call number) for emergency help.

Due to the nature of cellular networking, the success of emergency call is not guaranteed.

FCC Warning:

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.

Any changes or modifications not expressly approved by the guarantee of this device could void the user's authority to operate the device.

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.

The SAR limit of USA (FCC) is 1.6 W/kg averaged over one gram of tissue.

Mobile Computing Device PD602 model (FCC ID: 2AQ5W-PD602) has also been tested against this SAR limit. The highest reported SAR values for head, body- worn accessory, and product specific (Hotspot) are 0.78W/kg, 0.79 W/kg, and 0.79 W/kg respectively. The Max simultaneous SAR is 1.10 W/kg. This device was tested for typical body-worn operations with the back of the handset kept 10mm from the body. To maintain compliance with FCC RF exposure requirements, use accessories that maintain a 10mm separation distance between the user's body and the back of the handset. The 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.

5G:

Any emission is maintained within the band of operation under all conditions of normal operation. The max. frequency stability is less than 20ppm.

RoHS

AMobile Intelligent Corporation certifies that all components in its products are in compliance and conform to the European Union's Restriction of Use of Hazardous Substances in Electrical and Electronic Equipment (RoHS) Directive 2002/95/EC.

The above mentioned directive was published on 2/13/2003. The main purpose of the directive is to prohibit the use of lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB), and polybrominated diphenyl ethers (PBDE) in electrical and electronic products. Member states of the EU are to enforce by 7/1/2006.

AMobile Intelligent Corporation hereby states that the listed products do not contain unintentional additions of lead, mercury, hex chrome, PBB or PBDB that exceed a maximum concentration value of 0.1% by weight or for cadmium exceed 0.01% by weight, per homogenous material. Homogenous material is defined as a substance or mixture of substances with uniform composition (such as solders, resins, plating, etc.). Lead-free solder is used for all terminations (Sn(96-96.5%), Ag(3.0-3.5%) and Cu(0.5%).

SVHC / REACH

To minimize the environmental impact and take more responsibility to the earth we live, AMobile hereby confirms all products comply with the restriction of SVHC (Substances of Very High Concern) in (EC) 1907/2006 (REACH --Registration, Evaluation, Authorization, and Restriction of Chemicals) regulated by the European Union.

All substances listed in SVHC < 0.1 % by weight (1000 ppm)

Safety Symbols



This symbol indicates that a potential hazard to personal safety exists from a laser source. When this symbol is displayed in this manual, pay special attention to the specific safety information associated with the symbol

Important Safety Instructions

Read these safety instructions carefully:

1. Read all cautions and warnings on the device.
2. Dropping it or letting it fall may cause damage.
3. Make sure the correct voltage is connected to the device.
4. For pluggable device, the socket outlet should be near the device and should be easily accessible.
5. Disconnect this device from the A/C outlet before cleaning it. Use a moist cloth. Do not use liquid or sprayed detergent for cleaning.
6. Do not scratch or rub the screen with a hard object.
7. Never use any of the solvents, such as Thinner Spray-type cleaner, Wax, Benzene, Abrasive cleaner, Acid or Alkaline solvent, on the display. Harsh chemicals may cause damage to the cabinet and the touch sensor.
8. Remove dirt with a lightly moistened cloth and a mild solvent detergent. Then wipe the cabinet with a soft dry cloth.
9. If the device will not be used for a long time, disconnect it from the power source to avoid damage by transient overvoltage.
10. Never pour any liquid into openings. This may cause electrical shock.
11. Never open the device. For safety reasons, the device should be opened only by qualified service personnel.
12. If one of the following situations arises, get the device checked by service personnel:
 - a. The power cord or plug is damaged.
 - b. Liquid has penetrated into the device.
 - c. The device does not work well, or you cannot get it to work according to the user's manual.
 - d. The device has been damaged.
 - e. The device has obvious signs of breakage.
13. Keep this User's Manual for later reference.
14. Do not leave this device in an uncontrolled environment where the storage temperature is below -20°C (-4°F) or above 55°C (131°F). This may damage the device.



To prevent possible hearing damage, do not listen at high volume levels for long periods

Laser Safety

The device's barcode scanner that uses laser lights is a class 2 laser product. DO NOT stare into the laser beams or point the laser beam at anyone's eyes when the barcode scanner is in operation.



Rechargeable Battery Pack Safety

With very little care, you can optimize the battery life and maximize the lifespan of the battery. Most importantly, use only the device in its ideal operating temperature (refer to [1.5 Specifications](#) on page 8) – do not leave it in a hot trunk during the summer.

- Important Terms to Understand

“Battery life” means the time the device will run before it must be recharged (sometimes this is also called “playtime” or “runtime”).

“Battery lifespan” means the total amount of time your battery will last before it must be replaced.

- Using the Device for the First Time

Be sure to fully charge (approx. 3 hours) the device when charging the device for the first time.

- Long-Term Storage & Maintenance

If you are putting away the device for more than three months, it is recommended that get recharged every three months. If you store with an uncharged battery, it could fall into a deep worn-out state which would render it incapable of holding any charge. Be sure to store the device at the proper temperature (see as [1.5 Specifications](#) on page 8).

- **Battery Lifespan**

The non-replaceable batteries for the device are designed to retain up to 80% of their original capacity after 300 charging and recharging cycles when properly maintained. You may choose to replace new battery with the help of qualified service personnel when it no longer holds the sufficient charge that meets your needs.

- The lithium-ion battery is currently one of the most popular battery packs.

The best advantage is that it has no memory effect, so users needn't worry about that issue. Users can charge the battery anytime whether it is fully drained or not. However, it's recommended that users drain the battery until the system shows power shortage warning and then recharge the battery. Doing so is helpful to the reliability of your battery.

- Don't expose the battery to elevated heat situations such as under direct sunlight in a car or near fire.
- Don't disassemble the battery, or the battery leakage might cause skin or eye injury. If electrolyte leaking from the battery contacts your skin or clothing, immediately flush it with running water. If it splashes into eye, rinse the eye at least 15 minutes with clean water and then seek medical attention.
- To avoid battery leakage or explosion, don't discard the battery into water or fire, or put them near a heat source such as a gas stove or an oven.
- If you are putting away the battery for more than three months, it is recommended that the battery should be fully charged, and get recharged every three months. If you store the device with an uncharged battery, it could fall into a deep worn-out state which would render it incapable of holding any charge. Be sure to store your the device and battery at the proper temperature (refer to [1.5 Specifications](#) on page 8).
- The battery consists of precise electrical components and cells. Do not drop or hit the battery.

General Cleaning Tips

You may need the following precautions before you begin to clean the device. When you clean any single part or component for the device, please thoroughly read and understand the details below.

1. We strongly recommended that you should shut down the system before you start to clean any single components.
2. When you need to clean the device, please rub it with a piece of dry cloth.
3. Be cautious of the tiny removable components when you use a vacuum cleaner to absorb the dirt on the floor.
4. Never drop the components inside the device or get circuit board damp or wet.
5. Be cautious of all kinds of cleaning solvents or chemicals when you use it for the sake of cleaning. Some individuals may be allergic to the ingredients.
6. Try not to put any food, drink or cigarette around the device.

Cleaning Tools

Although many companies have created products to help improve the process of cleaning your devices and peripherals, users can also use household items to clean their devices and peripherals. Below is a listing of items you may need or want to use while cleaning your devices or peripherals. Keep in mind that some components in your device may only be able to be cleaned using a product designed for cleaning that component, if this is the case it will be mentioned in the cleaning.

- **Cloth:** A piece of cloth is the best tool to use when rubbing up a component. Although paper towels or tissues can be used on most hardware as well, we still recommend you to rub it with a piece of cloth.
- **Water or rubbing alcohol:** You may moisten a piece of cloth a bit with some water or rubbing alcohol and rub it on the device. Unknown solvents may be harmful to the plastics parts.
- **Vacuum cleaner:** Absorb the dust, dirt, hair, cigarette particles, and other particles out of the device can be one of the best cleaning methods. Over time, these items can restrict the airflow in a device and cause circuitry to corrode.

- **Cotton swabs:** Cotton swabs moistened with rubbing alcohol or water are excellent tools for wiping hard to reach areas in your keyboard, mouse, and other locations.
- **Foam swabs:** Whenever possible, it is better to use lint-free swabs such as foam swabs.

Recommended Cleaning Procedures

1. Close all application programs
2. Close operating software
3. Turn off the equipment
4. Remove all peripherals
5. Disconnect the power cable
6. Proceed to clean.

Disposing of the Equipment

- **Within the European Union**



EU-wide legislation, as implemented in each Member State, requires that waste electrical and electronic products carrying the mark (left) must be disposed of separately from normal household waste.

This includes monitors and electrical accessories, such as signal cables or power cords. When you need to dispose of your display products, please follow the guidance of your local authority, or ask the shop where you purchased the product, or if applicable, follow any agreements made between yourself. The mark on electrical and electronic products only applies to the current European Union Member States.

- **Outside the European Union**

If you wish to dispose of used electrical and electronic products outside the European Union, please contact your local authority so as to comply with the correct disposal method.

Additional Information & Technical Support

You can download the related technical documents such as datasheet and user's manual as well as driver on our website.

Please do not hesitate to call or e-mail our customer service when you still cannot get the information you need.

http://amobile-solutions.com/web_en/contact.php E-mail: support@amobile.com.tw

Warranty

This product is warranted to be in good working order during the warranty period. Should this product fail to be in good working order at any time during this period, we will, at our option, replace or repair it at no additional charge except as set forth in the following terms. This warranty does not apply to products damaged by misuse, modifications, accident or disaster.

Vendor assumes no liability for any damages, lost profits, lost savings or any other incidental or consequential damage resulting from the use, misuse of, or inability to use this product. Vendor will not be liable for any claim made by any other related party.

Vendors disclaim all other warranties, either expressed or implied, including but not limited to implied warranties of merchantability and fitness for a particular purpose, with respect to the hardware, the accompanying product's manual(s) and written materials, and any accompanying hardware. This limited warranty gives you specific legal rights.

Return authorization must be obtained from the vendor before returned merchandise will be accepted. Authorization can be obtained by calling or faxing the vendor and requesting a Return Merchandise Authorization (RMA) number. Returned goods should always be accompanied by a clear problem description.

Safety Symbols

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<NCC 警語>

低功率射頻器材技術規範

取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

應避免影響附近雷達系統之操作。

高增益指向性天線只得應用於固定式點對點系統。

減少電磁波影響，請妥適使用

SAR警語：「SAR 標準值：2.0 W/kg，送測產品實測值：_1.739_W/kg。」

視力警語「使用過度恐傷害視力」（具螢幕適用）。

視力注意事項（具螢幕適用）：

（1）使用30分鐘請休息10分鐘。

（2）未滿2歲幼兒不看螢幕，2歲以上每天看螢幕不要超過1小時。

記憶體容量資訊：內建主記憶體硬體容量：_4_GB，使用者可使用主記憶體容量至少：_1.7_GB，可擴充記憶卡支援：_512_GB以下。

<Attention>

- ◆ After the cessation of 2G mobile phone services in June 2017, the 2G functionality of this device will no longer be available domestically in Taiwan.
- ◆ Efforts should be made to avoid interfering with the operation of nearby radar systems.

<Battery usage warning>

1. Please use the original PD602 battery to avoid the risk of explosion.
2. Adhere to local regulations when disposing of the battery.
3. Do not disassemble, open, short circuit, or damage the battery.
4. Keep the battery away from heat, fire, and direct sunlight.
5. In case of battery leakage, avoid contact with skin or eyes. If accidental contact occurs, rinse thoroughly with plenty of water and seek medical attention.
6. Charge the PD602 according to the instructions in the manual.
7. Avoid aiming the laser light source at the eyes.

< User Warning>

This is a Class A information technology product. When used in a residential environment, it may cause radio frequency interference. In such a case, the user may be required to take appropriate measures.

Chapter 1

Introduction

1.1 Product Highlights

- PD602(4G) enabled rugged handheld device to benefit from speedy wireless communication.
- PD602(4G)MediaTek MT8781 Octa-core (2xCortex A76 2.2GHz+ 6x Cortex A55 2.0GHz)
- Support Android™ 13
- 6" IPS TFT LCD 720 x 1440 (FHD)
- Provides better Wi-Fi roaming connectivity to support the warehouse environment.
- IP67 waterproof and dustproof, 1.5M with bump.
- Dedicated NFC design for payment application.
- GMS ROW / EEA version certified.

1.2 Package Contents

Upon opening the package, carefully inspect the contents. If any of the items is missing or appears damaged, contact your local dealer or distributor. The package should contain the following items:



6" Rugged Mobile Computing Device

USB Cable

USB Cable



User Manual

1.3 Parts of the Device



1.4 Dimensions



1.5 Specifications

Durability Features	
IP-67	
1.5M (5ft.) drop-resistance and 1.5M with bump	
System	
CPU	MTK 8781 2 x A76 2.2GHz + 6 x A55 2.0GHz
OS	Android™ 13
Memory	4GB
Storage	64GB
Audio	Integrated microphone
	Integrated speaker
Peripherals and Devices	
Camera	Front: 8.0 megapixel camera
	Rear:13.0 megapixel AF
Sensor	Accelerometer (G-sensor)
	Magnetometer (Optional)
	3-axis digital gyroscope
	E-Compass/Proximity Sensor
Light Sensor	Ambient light sensor
WLAN	Integrated IEEE 802.11 a/b/g/n/ac (Wifi 5)
Bluetooth	Integrated Bluetooth 5.2 LE + with HID input
WWAN	Support, details refer to datasheet
DIO	8-bit Digital Input/Output
Navigation	GPS, Glonass, Beidou
Barcode Scanner	1D/2D barcode reader with physical trigger buttons Zebra SE4710 / SE4720 (Optional)
I/O Interface	
SD Slot	1 x microSD card slot (max 512GB)
SIM Socket (Dual slot)	Mode 1: 2 x Nano SIM Behavior1 : SIM1 & 2 active, micro SD disable. Behavior2: SIM1 & Mirco SD active, SIM2 disable.
USB Port	1 x USB Type-C
LCD Display	
Size/Type	6" IPS TFT LCD
Resolution	1440 x 720
Touch Screen	
Type	5-point Projected Capacitive Touch screen Corning® glass coating w/ anti-reflection coating
Power Supply	
Power System	Lithium-ion battery
	Lithium-ion rechargeable battery
Battery Type	non-replaceable

Battery Capacity	Main 5000mAh 2nd 170mAh (Hot Swappable)
Battery Life	Up to 8 hours battery life
Charging	12V/1.5A
Power Input	USB Type-C
Mechanical & Environmental	
Storage Temp.	-30°C ~ 70°C (-22°F ~ 158°F)
Operating Temp.	-10 ~ 50°C (14°F ~ 122°F)
Dimensions (W x H x D)	184 x 81 x 15.8 mm (7.2" x 3.1" x 0.62")
Weight	342g (0.12lb) (with battery)



Chapter 2

Getting Started

2.1 Installing microSD and SIM Card

To install the microSD card and/or SIM card:



Figure 2-1

Lift using your nails through the groove.



Figure 2-2

Pull out the plug



Figure 2-3

Take out the SIM Tray when it pops up.



Figure 2-4

As the diagram shown, insert Nano SIM and micro Card.

2.2 Charging the Battery

Due to shipment, the battery is partially drained when the package is delivered to you. Be sure to charge the battery to full when you are charging it for the first time.

Caution: Do not charge the PD602 via computer USB connection due to that the voltage output from computer USB is not enough to charge the device.

2.2.1 Charging the Battery

To charge the battery using a electrical outlet:

1. Using the USB cable that comes with the device, connect the small end of the cable to the USB port on the device.
2. Then connect the other end of the USB cable to the power adapter.
3. Connect the power adapter to an electrical outlet.



Step 1: Connect the same end of the USB cable to the device.

Step 2: Connect the USB cable to the power adapter.

Step 3: Connect the power adapter to a power outlet.

2.2.2 Checking the Battery Level

When the charging is in process, a battery indicator will appear in the status bar showing the charging percentage. Unplug the USB cable from the device when the battery is fully charged.

LCD STATUS	Indicator
Off	The PD602 is not charging or nor correctly connected
Solid Red 	Battery charged 0~89%
Green 	Battery Charger90~100%

2.3 Installing/Replacing the Battery

Please contact qualified service personnel for battery replacement.

2.4 Optimizing Battery Life

To optimize the operating time of the battery, it is recommended that you do the following:

- Decrease the LCD display brightness.
- Set a shorter timeout of inactivity to allow the screen enter sleep mode.
- Turn off the display if you are not using it.
- Always exit the applications if it is not in use.
- Disable the Wi-Fi, Bluetooth or GPS function if you are not using it.
- Disable the App that heavily drains the battery if you are not using it.

To view the battery usage by access settings-> Battery.



- Disconnect USB devices such as USB flash drive if it is not in use.

Inserting the standard Battery Pack into the device:

1. Disconnect AC adapter and power cord from the device.
 2. Turn the device over, back facing up.
 3. Locate the Battery Lock Latch and push it to the "Unlocked" position.
 4. Locate the Battery Release Slider that is spring-loaded. Pull back and hold.
- Reinsert the battery by latching the bottom first (1) and then pushing the battery pack down (2).
Inserting the standard Battery Pack into the device:



Caution Check the battery latch position.



To remove the battery pack:

1. Power off the Rugged Mobile Computer. Disconnect any cords connected to the device.
2. Turn the Rugged Mobile Computer over, back facing up.
3. Locate the Battery Lock Latch and push it to the "Unlocked" position.
4. Locate the Battery Release Slider that is spring-loaded. Pull back and hold.
5. Lift the battery out using the opening on the side of the battery compartment.



Chapter 3

Using the Rugged Mobile Computing Device

3.1 Using Touch Screen

The PD602 comes with a projected capacitive multi-touch screen. Touch control is the main way to interact with the PD602. Users are able to manipulate icons, graphic buttons, menus, the onscreen keyboard or any onscreen items with touch control. This chapter will walk you through the basic operations.

3.1.1 Basic Operations

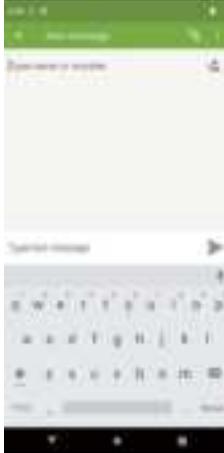
The table below provides instructions on how to use the multi-touch screen:

Operation	Descriptions
Tap	Tap an item and quickly release to select an item, launch an application, or open a menu.
Tap and hold	Tap and hold an item or a blank area on the screen for a few seconds until a menu opens or an option appears
Drag	Tap and hold on an item, such as an image or an icon, then move it to the target position. While dragging, do not release until you have reached the target position.
Swipe	Move your finger horizontally or vertically across the screen to scroll through the screen, App menu, pages, lists and so on.
Zoom in / out	Move two fingers closer together on an item, such as a picture, web page, or map, to zoom out, or move two fingers apart to zoom in.
Double Tap	For some applications, quickly tap twice on an item to zoom in and double-tap again to zoom out.

3.1.2 Text Input

The PD602 doesn't have a physical keyboard to receive user's text input. To input text on the device, it relies on the "onscreen keyboard" featured by the operating system. An "onscreen keyboard" is a virtual keyboard with most of the standard keys.

To open the onscreen keyboard, simply tap a text input field and the keyboard appears.



3.1.3 Sleep Mode

When the device suspends to sleep mode, it enters a low power state and the display is off to save the battery power. You can manually force the device to enter sleep mode or specify a period of inactivity before it automatically enters sleep mode. While the device is in sleep mode, it is still capable of receiving messages and calls and processing tasks like downloading.

To switch to sleep mode, press the **Power** key until the screen is turned off.

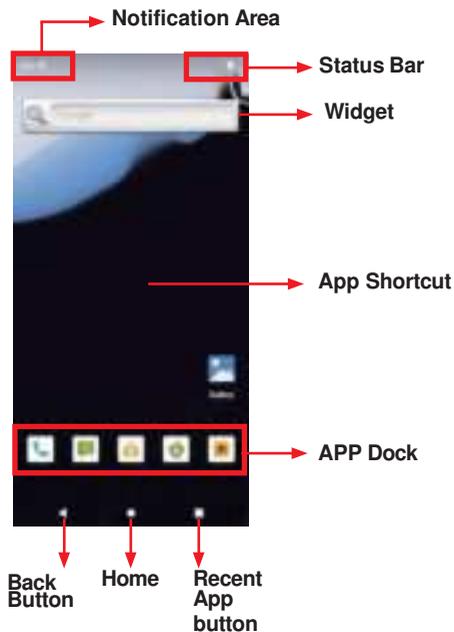
To wake up the device from sleep mode, press the Power key until the screen is turned on. If the screen is locked, swipe the lock icon to the outer circle to unlock the device.

To specify the period of inactivity, swipe down the **Status Bar** in the upper right corner and tap **Settings** | **Display** | **Sleep**. Then select a time of inactivity before the device enters sleep mode

3.2 Home Screen

The Home screen provides you with an instant access to device status, notifications, application shortcuts, folders and widgets. Simply tap an item and you can launch the associated application. You can also add desired items to the **Home** screen, extend the Home screen or personalize the wallpaper to tailor it to your personal needs.

When you power on the device for the first time, a typical Home screen looks like the example below.



The table below describes the elements on a typical Home screen:

Element	Descriptions
Home Screen	<ul style="list-style-type: none">• Tap an item on this screen to launch that item.• To delete an icon or widget, tap and drag the item to the top of the screen until the Remove bar appears on the top of the screen. Then move the icon to the Remove bar.• Tap and hold any empty spot on this screen to customize your home screen.
Notification Area	<p>The Notification Area is visible across the Home screens. This area informs you of new messages, events, alarms, and activities in progress. Applications you install on your device may show their own icons or messages in the area. You can access the notification panel to see more information by swiping down the Notification Area.</p>
Status Bar	<p>The Status Bar is visible across the home screens. It shows the time, signal strength, battery status, and other information. Applications you install on your device may show their own icons in this area. You can swipe down the Status Bar to access a Quick Settings panel where you can quickly access some most commonly used settings and features.</p>
Widget	<p>The miniature of an application that functions directly on the Home screen.</p>
APP Dock	<p>The dock is visible across the home screens. It shows the most commonly used App icons for quick access. You can change the icons as needed.</p>
App Launcher	<p>Tap it to open the "App Launcher" where all applications installed on the G47 can be viewed and launched.</p>
Back Button	<p>Tap to go to the previous screen.</p>
Home Button	<p>Tap to return to Home scree.</p>
Current Running App Button	<p>Tap to view show your current running Apps and touch an App to open it. To remove an App from the list, swipe it left or right.</p>

3.2.1 Using the Quick Settings Panel

Swiping down the **Status Bar** will bring up a **Quick Settings** panel where you can quickly access some most commonly used settings and features. To enable/disable a feature or switch between available options, simply tap the intended tile. It appears dimmed when disabled and brightened when enabled.

For some features such as Wi-Fi, Bluetooth, Flashlight, Portrait, Airplane mode, you can also tap and hold the tile to directly access the settings page.



Swipe down the **Status Bar** to access the **Quick Settings** panel.

For some feature tiles, you can

- tap to enable/disable a feature
- tap and hold to quickly access its settings page

3.2.2 Extending Home Screen

The **Home** screen is extended beyond the screen width to provide more space for adding application shortcuts and widgets.

To access the extended **Home** screen, swipe on the **Home** screen to the left or right.

To add application icons or widgets to the extended **Home** screen:

1. Tap the **App Launcher** icon on the **Home** screen to locate the target application icon or widget.
2. Tap and hold the target icon or widget until the extended **Home** Screen appears.
3. Move the icon or widget to desired screen and then release.

3.3 Using Cellular Network

After you insert the SIM card(s) to the PD602 for the first time and power on the PD602, depending on your mobile network carrier you might be guided to activate the account and connect to your mobile network. If you are asked for a PIN to unlock the SIM card when powering on the PD602, contact your cellular network carrier for the default PIN.

When a new SIM card is detected by the PD602, you will be prompted to configure its usage, including voice call, messaging and data connection. You can configure it now or change the settings later by accessing setting-> Network & Internet->SIM Cards.



Featuring SIM card slots, the PD602 supports SIM mobile connection, allowing you to enjoy constant and seamless Internet connection. Two cellular network icons will be displayed in the **Status Bar** to indicate the connectivity and signal strength.

Icon	Descriptions
	No signal or no SIM card inserted.
	Connected to a cellular network. (In the case of a successful connection, it will display as 2G/3G/4G, etc.)

Different locations may have different mobile networks available. The PD602 adopts the fastest mobile network available for data. However, in order to extend the battery life, you can configure the PD602 to use only a slower 2G network for data. You can also configure the PD602 to access a different set of networks entirely, or to behave in special ways when roaming.

If there is no SIM card, the PD602 isn't capable of 3G voice and data services; however it is still able to connect to a Wi-Fi network to log into a wireless local area network. To learn more, see [3.4 Using the Wi-Fi Feature](#) on page 25.

3.3.1 Making/Receiving Calls

After you activate your SIM card(s), the PD602 auto-connects to your cellular network when it powers on. You can start to use the phone service.

Using phone service, e.g., making or answering a call, is similar to the way you use a mobile phone.

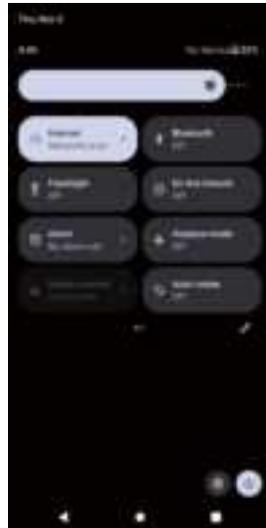
To use the device for phone service, it is suggested that you connect a wired headset to the device's headset connector or use a wireless Bluetooth headset or car kit. For instructions on how to connect to a Bluetooth device, see [3.5 Using the Bluetooth Feature](#) on page [31](#) for details.

3.3.2 Data Connection

Connecting to a cellular network enables you to use voice service as well as data connection service, e.g., the Internet connection. However, in most cases using Wi-Fi for data connection is faster and less expensive than using a cellular network and you may want to disable data connection of your SIM card when Wi-Fi is available. On the other hand, you may want to enable cellular data connection when Wi-Fi is not available.

To enable or disable data connection:

1. Swipe down the **Status bar** and tap **Mobile data**.
2. Enable data connection for a desired SIM card or tap **Off** to disable data connection.



3.3.3 Data Roaming

When the PD602 moves to where your cellular network is not available, data roaming connects the PD602 to other service providers. This is often useful abroad if you want to keep receiving data across networks. However, the mobile rates can substantially increase as the costs for accessing the Internet are particularly high. Under such situation you may want to disable the data roaming function of the SIM card.

To enable or disable data roaming:

Swipe down the **Status bar** and tap **Settings | NETWORK & INTERNET | SIM Cards**

While data roaming is disabled, you can still use Wi-Fi connection to access the Internet data. See [3.4 Using the Wi-Fi Feature](#) on page [25](#) for more information.

3.4 Using the Wi-Fi Feature

The PD602 is capable of Wi-Fi networking. Wi-Fi is a wireless networking technology that uses an access point, also known as the “hotspot”, to connect to an Internet service provider over the wireless local area network (WLAN). Some hotspots are open to connect while others request you to present a key to authenticate your connection. The PD602 needs to be configured including such key to connect to a hotspot.

Follow the guide below to connect the PD602 to your wireless local area network:

Note: Turn off Wi-Fi when it isn't used to extend battery life.

The Status Bar displays the following icons that shows Wi-Fi status.

Icon	Descriptions
	Notifies that an open Wi-Fi network is in range.
	Notifies that a Wi-Fi network is connected. Waves indicate signal strength.

3.4.1 Enabling Wi-Fi and Connecting to a WLAN

1. Swipe down the **Status bar** and tap the **WI-FI** tile to enable Wi-Fi if it isn't enabled yet.
2. In the **Quick Settings** panel, tap and hold the **WI-FI** tile to access the Wi-Fi settings page.

The PD602 then proceeds to scan for available Wi-Fi networks in range and displays the names of those found. Secured networks are displayed with waves denoting signal strength plus a lock on  while the open networks don't.

To re-scan for available Wi-Fi networks, tap the menu Off, and on.



Tap a network to connect to it. To connect to a secured network, you're prompted to enter a password or other credentials. (Ask your network administrator for details.)

If the PD602 detects a network previously connected to, the PD602 auto-connects to it.

Once a Wi-Fi network is connected, it displays as “connected” on the Wi-Fi settings screen. Tap it to see the details about the speed, security, address, and related info.

3.4.2 Adding a Wi-Fi Network

Under the following situations, you may need to manually add a Wi-Fi network:

- When a Wi-Fi network doesn't broadcast its name (SSID)
- When a Wi-Fi network is out of range and you want the G47 to remember it and auto-connect to it as soon as it gets in range.

To add a Wi-Fi network:

1. Swipe down the **Status bar** and tap the **WI-FI** tile to enable Wi-Fi if it isn't enabled yet.
2. In the **Quick Settings** panel, tap and hold the **WI-FI** tile to access the Wi-Fi settings page.
3. Tap the plus sign icon to open the **Add network** dialog box.



4. Enter the SSID (name) of the network. If the network is secured, tap the triangle at the right of the **Security** field to select the type of security deployed on the network and enter any required security credentials.
5. Tap **Save**.

The PD602 then proceeds to connect to the Wi-Fi network. Any credentials entered are saved so the PD602 automatically connects it the next time the PD602 gets it within the range.

3.4.3 Connecting to a Wi-Fi Network by WPS

Wi-Fi Protected Setup (WPS) is a feature that allows WPS-compliant devices to connect to each other instantly in a secure way. As the WPS devices automatically configure the SSID and WPA security key, it eliminates the need for users to manually enter the SSID and password. WPS works in two methods: Push or personal identification number (PIN). To connect to a Wi-Fi network via WPS:

1. Swipe down the Status bar and tap the WI-FI tile to enable Wi-Fi if it isn't enabled yet.
2. In the Quick Settings panel, tap and hold the WI-FI tile to access the Wi-Fi settings page.
3. Use either of the following methods to make the connection:

Wi-Fi | Wi-Fi preferences | advanced | WPS Push button, tap the WPS icon and a prompt message will appear. Then press the WPS button on your WPS router within two minutes



To use PIN method, **Wi-Fi | Wi-Fi preferences | advanced | WPS Pin Entry** tap the **WPS Pin Entry**. You will be prompted with a PIN. Enter that PIN on your Wi-Fi router within two minutes.



4. WPS authentication process will start. When the authentication is done, you will be prompted that connection is successful.

3.4.4 Forgetting/Modifying a Wi-Fi Network

When you don't want the PD602 to "auto" connect to a Wi-Fi network or when it is a network that you no longer use, remove the Wi-Fi network by the steps below:

1. Swipe down the Status bar and tap the WI-FI tile to enable Wi-Fi if it isn't enabled yet.
2. In the Quick Settings panel, tap and hold the WI-FI tile to access the Wi-Fi settings page.
3. On the Wi-Fi settings screen, tap network to forget.
4. Tap Forget.

Some Wi-Fi networks may periodically change their passwords to enhance the network security. When this occurs, you need to change the saved login credentials. To change the password, follow the steps above to access the context menu of the intended network. Then tap Modify network to make the changes.

3.4.5 Making Your Device a Wi-Fi Hotspot

When the PD602 is connected to a 4G network, you can share the connection with your laptop or other devices by making your G47 a Wi-Fi hotspot. To do so:

1. Swipe down the **Status bar** and tap **SETTINGS | NETWORK & INTERNET | Hotspot & tethering | Wi-Fi hotspot**.
2. Tap Wi-Fi hotspot slider to enable the hotspot function.
3. Tap Set up **Wi-Fi hotspot** to configure the settings as needed:
 - **Network SSID:** Enter a name to identify the wireless network created by the PD602.
 - **Security&Password:** To prevent your device from being accessed by unauthorized users, it is strongly recommended that you set up a password to protect your network.
 - Using the Rugged Handheld Device

When Wi-Fi hotspot is enabled, a Wi-Fi hotspot icon  will appear in the **Notification Area**. You can swipe down the icon to see the connection information.



3.5 Using the Bluetooth Feature

Bluetooth enables the wireless connection over a short distance about 8 meters. It is specified as a "wireless personal area network" (WPAN). The PD602 is Bluetooth-capable to synchronize data with other Bluetooth-capable devices such as PCs, laptops, hands-free, headsets, printers, PDAs and cell phones.

Before the PD602 can connect a Bluetooth device, it needs to pair with that device. Such "pairing" involves the authentication between them to justify their accesses to each other. Once they are paired, they stay paired unless they are unpaired.

The Status bar displays the following icons that indicate Bluetooth status.

Icon	Descriptions
	Notifies that an open Wi-Fi network is in range.
	Notifies that a Wi-Fi network is connected. Waves indicate signal strength.

3.5.1 Enabling Bluetooth and Pairing with Bluetooth Device

To enable or disable the Bluetooth function:

1. Swipe down the **Status bar** and tap the **BLUETOOTH** tile to enable Bluetooth if it isn't enabled yet.
2. In the **Quick Settings** panel, tap and hold the **BLUETOOTH** tile to access the Bluetooth settings page.
3. If the Bluetooth device you want to pair with is not displayed in the **AVAILABLE DEVICES** list, tap **Pair new device**.

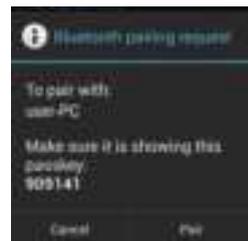


The PD602 proceeds to scan for any Bluetooth device in range. Then it displays the names of the device(s) found.

If the PD602 stops scanning before the other device becomes discoverable, tap **Pair new device** again.

Note: If the device to pair with isn't displayed after the scan, check if it is configured to be discoverable.

4. Tap the device you want to pair with. When the **Bluetooth pairing request** dialog box appears, tap **Pair**. The PD602 will then send a connection request to the device you want to pair with.



On the device to pair with, a dialog box appears requesting to enter or verify the pairing code. The passkey entered or shown on the PD602 and the Bluetooth device must be the same.

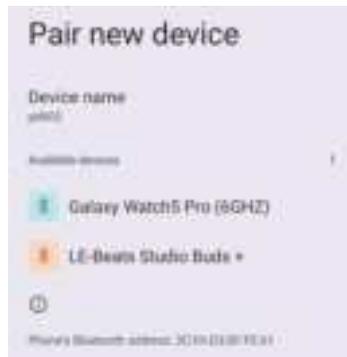
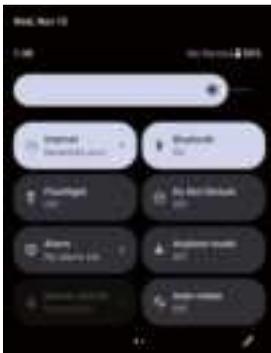
If you're prompted to enter a pin code, try entering 0000 or 1234 (the most common pin code), or look up in the documentation that came with the other Bluetooth device to learn its pin code.

Then the devices proceed to pair with each other.

3.5.2 Configuring Bluetooth Features to Use

A "Bluetooth profile" defines the features supported by a Bluetooth device. For two Bluetooth devices to share files with each other, they need to both support the right profile. Some Bluetooth devices have multiple profiles. A profile can provide the ability to transmit phone conversations, to play music in stereo, or to transfer files or other data. The operating system allows you to configure the profiles you want to use on the PD602.

1. Swipe down the Status bar and tap the BLUETOOTH tile to enable Bluetooth if it isn't enabled yet.
2. In the Quick Settings panel, tap and hold the BLUETOOTH tile to access the Bluetooth settings page.
3. Tap the  icon at the right of a paired device. "Paired Bluetooth device" page opens for that paired device.
4. Select or deselect a profile to use it.



3.5.3 Disconnect from a Bluetooth Device

To disconnect the PD602 from a Bluetooth device:

1. Swipe down the **Status bar**. In the **Quick Settings** panel, tap and hold the **BLUETOOTH** tile to access the Bluetooth settings page.
2. In the **PAIRED DEVICES** list, find the device to disconnect.
3. Tap the  icon at the right of the device.
A "Paired Bluetooth device" page opens for that paired device.
4. Tap **FORGET**.

The selected device is unpaired and disconnected.

3.5.4 Making Your Bluetooth Device Discoverable

To allow other Bluetooth-enabled device to find the PD602, you have to make sure the PD602 is visible to other devices in addition to enabling Bluetooth feature. After you turn on the Bluetooth the PD602 will be visible.

3.5.5 Additional Bluetooth Settings

From the Bluetooth settings page, tap the menu icon on to get the following options:

1. **Device name:** Allows you to edit the Bluetooth name of the PD602 that will be shown to others when they try to search for it.
2. **Received files:** Open the location where downloaded and uploaded Bluetooth files are stored.

3.6 Using the Location Feature

The PD602 features positioning function to identify your location. It allows location-based Apps to collect and use your location information to provide location-related service. For example, a third-party App might want to pinpoint a vehicle's location so as to provide a more efficient route for the driver upon traffic congestion. For a location-based App, you can individually configure whether it is allowed to access to location services when the service is on.

Note: When you turn off the location service, you also turn it off for the Apps that use this service. That means location-based service will stop and not be available.

3.6.1 Enabling/Disabling Location Service

To turn on or off location service, swipe down the Status bar to bring up the Quick Settings panel. Then access the Security & location | Location tile to turn it on or off.

3.6.2 Location Mode

In addition to GPS satellite method, the G47 also supports Assisted GPS (A-GPS), a method using Wi-Fi and cellular networks to speed up startup positioning performance. According to the position mode, the battery drain and position accuracy varies.

To select a location position mode when the location service is on,

1. Swipe down the Status bar and tap the LOCATION tile to enable the location service if it isn't enabled yet.
2. In the Quick Settings panel, tap and hold the LOCATION tile to access the location settings page.
3. Tap Mode and select a mode:
 - **High accuracy:** This mode uses GPS, Wi-Fi and cellular networks to determine location. It drains the battery faster yet higher accuracy is achieved compared to the other two modes. Select this mode if precise location matters to you.

- **Battery saving:** This mode uses Wi-Fi and cellular networks to determine your location. Select this mode if you need to extend the battery life.
- **Device only:** This mode determines your location using GPS only. Without using Wi-Fi and cellular networks to improve the startup process, it takes longer to determine the location.

3.7 Using Camera

The device is equipped with two cameras: a front-facing camera and a back-facing camera with LED flash. Using the native camera application that comes with the operation system, you can switch between the front and rear cameras and perform other camera operations.

To access the camera application, on the Home screen tap the camera icon



The camera application then opens.



Various camera modes and effects/ Auto mode/ Switches between the front-and rear-camera.

Recorder icon. Tap it to shoot a video.

Shutter icon. Tap it to take a picture.

When taking a photo:

- To zoom in and out, place two fingers apart or together.
- When you frame your subject on the screen, the camera will Auto Focus on the center of the screen with a focus indicator. To manually make a focus, tap the target or area that you want to focus on.
- To take a photo, press the shutter icon.

When recording a video:

- To enable/disable the microphone, tap the Settings icon and then video icon.
- To start the recording, tap the Recorder icon and the timer starts.
- To stop the recording, tap the Recorder icon again.



3.8 Using the NFC Feature

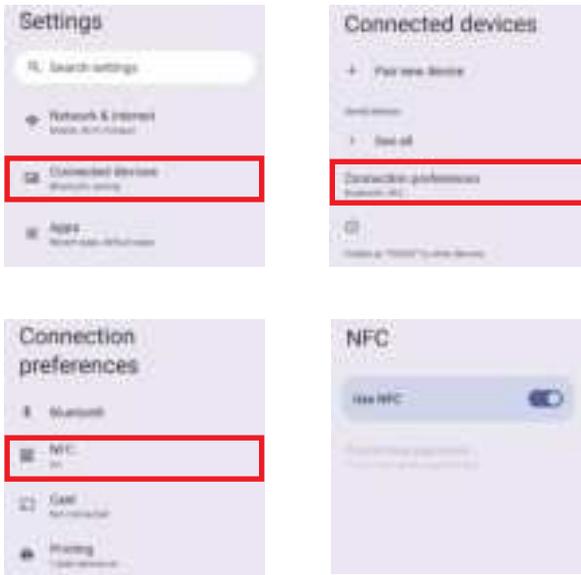
Near Field Communication (NFC) is a short-range wireless communication technology that enables NFC-capable devices to exchange data such as contacts, photos, music, or web address over a short distance less than 4 centimeters.

The NFC detection area is at the back side of the PD602. When you tap other NFC devices, tags, or readers, the NFC areas of both devices should be close to one another so that the connection can be established.

3.8.1 Enabling/Disabling NFC

To enable or disable the NFC function:

1. Swipe down the **Status bar** and tap  **Settings | Connected devices | NFC**.
2. Tap the NFC slider to turn it on or off.
3. NFC remains in a constant active state in the background, requiring manual settings to turn it off.



3.8.2 Configuring NFC Modes

The PD602 supports NFC modes.

3.8.3 Exchanging Data with NFC-Enabled Device

To use NFC to exchange App contents, both sending and receiving devices must be NFC-enabled and unlocked. The following describes how to beam App content from the G47 to another NFC device:

1. Make sure both devices are NFC-enabled. For your PD602, enable NFC as described in [3.8.1 Enabling/Disabling NFC](#) on page [37](#) if it isn't enabled yet.
2. Open the content you want to exchange.
3. Make sure the screen of both devices are unlocked, then touch the devices together, back to back.
4. On the PD602, you will hear a sound and be prompted a message "**Touch to beam**". Touch the screen of the PD602 to begin the beaming process.
5. The content will appear on the other devices's screen.

3.9 Using the Barcode Scanner

Barcode scanner is an optional feature on the PD602. Depending on your models, your PD602 might be equipped with 1D/ 2D barcode scanner. This section will walk you through the basic operations. To get the information on supported barcode formats, see [3.9.3 Supported Barcode Formats on page 41](#) for details.

Caution: The barcode scanner uses laser lights to scan barcodes. DO NOT stare into the laser beams or point the laser beam at anyone's eyes when the barcode scanner is in operation.



3.9 Using the Barcode Scanner

Below is an essential operational guide for the PD602 barcode scanner. The device has an embedded barcode reader, and the operations may slightly differ based on the reader's specifications.

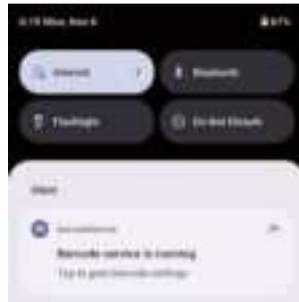
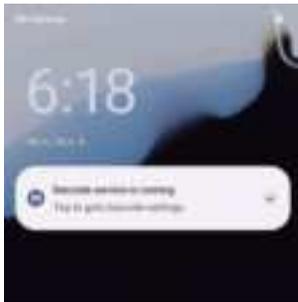
1. Find the black striped button on both sides of the PD602 device.
2. Press both the black striped button and the orange button simultaneously.
3. A red aiming beam will appear above the PD602 unit.
4. Aim the red beam at the barcode of the scanning object for reading.
5. The PD602 will display the barcode content on the screen.



3.9.1 Scanning the Barcode

If you encounter difficulties reading data, you can follow these steps to set the barcode specifications and attempt to read the data again:

1. Locate the "Barcode I-CON" on the top of the PD602 main screen.
2. Tap to enter "Barcode service is running."
3. Select "Barcode types setting."
4. Inside, you will find various scanning specifications. Please choose the appropriate specification by checking the box, then save it to complete the setup.



3.9.3 Supported Barcode Formats

2D Model

Type	Formats
Linear	Code 39, Code 128,
2D Stacked	PDF417, QR Code, Aztec, Codablock-F,
2D Matrix	Data Matrix
Product code	100% UPCA
Postal	Australian Post Standard Customer, Planet Code 12, Royal mail 4-State, USPS PostNet 5, USPS PostNet 9, USPS PostNet 11, UPU S10,