

Rugged Handheld Computer





User's Manual

Version 1.6

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Revision History

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Date	Change Description	Version
20221014	First Published Version	V1.0
20221019	Update product photo & pogo pin description	V1.1
20230110	Update Ch1.3 Specifications	V1.2
20230111	Update Main screen photo	V1.3
20230215	Update 1.3 Specifications	V1.4
20230301	Update Preface-Regulatory Compliance Statements &	V1.5
	p.9 Note	
20230303	Update IC Statements in Preface- Regulatory	V1.6
	Compliance Statements	



About This Manual

Thank you for purchasing the Unitech product.

This manual explains how to install, operate and maintain our product. No part of this publication may be reproduced or used in any form, or by any electrical or mechanical means, such as photocopying, recording, or information storage and retrieval systems, without permission in writing from the manufacturer. The material in this manual is subject to change without notice.

Regulatory Compliance Statements

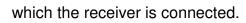
FCC Warning Statement

This device 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 with radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference with 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



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

- 1. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
- 2. This device complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. To maintain compliance with FCC RF exposure requirements, avoid direct contact to the transmitting antenna during transmitting.
- 3. Any changes or modifications (including the antennas) made to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment.

FCC Label Statement

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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.
- 2. This device must accept any interference received, including interference that may cause undesired operation.

RF Radiation Exposure Statement

For body contact during operation, this device has been tested and meets FCC RF exposure guidelines when used with an accessory that contains no metal and that positions the handset a minimum of 1.0 cm from the body. Use of other accessories may not ensure compliance with FCC RF exposure guidelines.

IC Statements

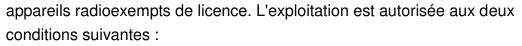
This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

(1) this device may not cause interference, and

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

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Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux



(1) l'appareil ne doit pas produire de brouillage, et

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(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut

fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

After the laboratory measurement, the max SAR value is 1.52mW/g which satisfies the RF exposure requirement.

(i) 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 systems;

(ii) the maximum antenna gain permitted for devices in the bands 5250-5350
MHz and 5470-5725 MHz shall comply with the e.i.r.p. limit; and
(iii) the maximum antenna gain permitted for devices in the band 5725-5825
MHz shall comply with the e.i.r.p. limits specified for point-to-point and non point-to-point operation as appropriate.

(i)Les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.

(ii) le gain d'antenne maximal autorisé pour les appareils dans les bandes
5250-5350 MHz et 5470-5725 MHz doivent respecter le pire limiter; et
(iii) le gain d'antenne maximal autorisé pour les appareils dans la bande
5725-5825 MHz doivent respecter le pire limites spécifiées pour le
point-à-point et l'exploitation non point à point, le cas échéant.

Users should also be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5250-5350 MHz et 5650-5850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

European Conformity Statement

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Unitech Electronics co., Ltd herewith declares that the Unitech product is in compliance with the essential requirements and all other provisions of the RED 2014/53/EU directive.

The declaration of conformity is available for download at : <u>https://portal.Unitech.eu/public/Safetyregulatorystatement</u>

CE RF Exposure Compliance

For body-worn operation, this device has been tested and meets the ICNIRP guidelines and the European Standard EN 62209-2, for use with dedicated accessories, SAR is measured with this device at a separation of 0.5 cm to the body, while transmitting at the highest certified output power level in all frequency bands of this device. Use of other accessories which contain metals may not ensure compliance with ICNIRP exposure guidelines.



CE Mark Warning

RoHS Statement

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This device conforms to RoHS (Restriction Of Hazardous Substances) European Union regulations that set maximum concentration limits on hazardous materials used in electrical and electronic equipment.

Waste electrical and electronic equipment (WEEE)



Unitech has set up a policy and process to meet the 2012/19/EU concerning electronic waste disposal.

For more detailed information of the electronic waste disposal of the products you have purchased from Unitech directly or via Unitech's resellers, you shall either contact your local supplier or visit us at : <u>https://portal.Unitech.eu/public/WEEE</u>



Taiwan NCC Warning Statement

低功率電波輻射性電機管理辨法

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。

SAR標準值2.0W/KG, 送測產品實測值為: 0.395 (W/KG)

注意事項:

- 1. 使用過度恐傷害視力。
- 使用30分鐘請休息10分鐘;未滿2歲以下幼兒不看螢幕,2歲以上每天看螢幕不要 超過1小時。
- 3. 减少電磁波影響,請妥適使用。

Note:

Within the 5.25-5.35 GHz band, U-NII devices will be restricted to indoor operations to reduce any potential for harmful interference to co-channel MSS operations.

Devices shall not be used for control of or communications with unmanned aircraft systems.

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Laser Information

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The Unitech product is certified in the U.S. to conform to the requirements of DHHS/CDRH 21CFR Subchapter J and to the requirements of IEC 60825-1. Class II and Class 2 products are not considered to be hazardous. The Unitech product contains internally a Visible Laser Diode (VLD) whose emissions do not exceed the maximum limits as set forth in the above regulations. The scanner is designed so that there is no human access to harmful laser light during normal operation, user maintenance or prescribed service operations.

The laser safety warning label required by the DHHS/IEC for the Unitech product's optional laser scanner module is located on the memory compartment cover, on the back of the unit.

* Laser information only applies to the products with laser components.

CAUTION! Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous laser light. Use of optical instruments with the scanner, including binoculars, microscopes, and magnifying glasses, with will increase eye damage. This does not include eyeglasses worn by the user.

LED Information

The Unitech product contains LED indicator(s) or LED ring whose luminance is not harmful to human eyes during normal operation, user maintenance or prescribed service operations.

*LED information only applies to the products with LED components.

Battery Notice

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1. To guarantee optimal performance, it is recommended that rechargeable batteries be replaced every year, or after 500 charging cycles are completed. It is normal for the battery to balloon or expand after one year or 500 cycles. Although it does not cause damage, it cannot be used again and must be disposed of according to the location's safe battery disposal procedures.

- 2. If a battery performance decreases more than 20%, the battery is at the end of its life cycle. Stop use and ensure the battery is disposed of properly.
- 3. The length of time that a battery lasts depends on the battery type and how the device is used. Conserve the battery life by doing the following:
 - Avoid fully uncharging the battery because this places additional strain on it. Several partial uncharges with frequent charges are better than a fully uncharged battery. Charging a partially charged battery does not cause harm to the unit.
 - Keep the battery cool. Avoid hot vehicles. For prolonged storage, keep the battery at a 40% charge level.
 - Do not leave the battery uncharged and unused for an extended period of time, the battery will wear out and the longevity of the battery will be at least half of one with frequent charges.
- 4. Protect battery life by not over or under charging the battery.
- 5. Please do not leave battery unused for long time without charging it. Despite Unitech's safety precautions, the battery pack may begin to change shape. If so, stop using it immediately. Please check to see if you are using a proper power adapter to charge the battery or contact your service provider for service.
- 6. If you cannot charge the battery after it has been idle for an extended period of time and it begins to heat up, please do not try to charge it. It may not be functional anymore.
- 7. Please only use the original battery from Unitech. Using a third party battery can damage our products. Please note that when such damage occurs, it is not covered by Unitech's warranty policy.



CAUTION! RISK OF EXPLOSION IF BATTERY IS REPLACED INCORRECTLY. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

- 電池若未正確更換,可能會爆炸。請用原廠建議之同款
 或同等級的電池來更換。請依原廠指示處理廢電池。
 請依製造商說明書處理用過之電池
- 如果更换不正确之电池行事会有爆炸的风险 请依制造商说明书处理用过之电池

Battery charge notice

It is important to consider temperature when the battery pack is charging. Charging is most efficient at normal room temperature or in a slightly cooler environment. It is essential that batteries are charged within the stated range of 0°C to 40°C. Charging batteries outside of the specified range could damage the batteries and shorten their life cycle.

- **CAUTION!** Do not charge batteries at a temperature lower than 0°C. This will make the batteries unstable and dangerous. Please use a battery temperature detecting device for a charger to ensure a safe charging temperature range.
- **CAUTION!** To ensure the unit working properly, please keep all connectors away from the contaminants staying inside of them such as dust, grease, mud, and water. The negligence may cause the unit with no communication, short circuited, overheated and so on.
- **CAUTION!** If the connector is damaged, please ensure the connector is being fully repaired before use the unit to avoid causing short circuited.



Storage and safety notice

Although charged batteries may be left unused for several months, their capacity may be depleted due to build up of internal resistance. If this happens, they will require recharging prior to use. Batteries may be stored at temperatures between -20°C to 60°C, however they may deplete more rapidly at higher temperatures. It is recommended to store batteries at room temperature.

* The message above only applies to the usage of the removable batteries. For the products with non-removable batteries / without batteries, please refer to the specification of each product.

Product Operation and Storage Notice

The Unitech product has applicable operation and storage temperature conditions. Please follow the limitation of suggested temperature conditions to avoid failure, damage or malfunction.

* For applicable temperature conditions, please refer to the specification of each product.

Adapter Notice

- 1. Please do not leave the power adapter in the socket when it is not connected to your Unitech product for charging.
- 2. Please remove the power adapter when the battery is fully recharged.
- 3. The bundled power adapter that comes with your Unitech product is not meant to be used outdoors. An adapter exposed to water or rain, or a very humid environment can cause damage to both the adapter and the product.
- 4. Please only use the bundled power adapter or same specification of adapter to charge your Unitech product. Using the wrong power adapter can damage your Unitech product.

^{*} The message above only applies to the product connected to the adapter. For the products without using the adapters, please refer to the specification of each product.



Hearing Damage Warning

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





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Unitech's professional support team is available to quickly answer questions or assist with technical-related issues. Should an equipment problem occur, please contact the nearest Unitech regional service representative. For complete contact information please visit the Web sites listed below:

	• •			
Taipei, Taiwan – Headquarters		Europe		
Tel:	+886-2-89121122	Tel:	+31-13-4609292	
E-mail:	info@hq.ute.com	E-mail:	info@eu.ute.com	
Address:	5F, No. 136, Lane 235, Baoqiao Road, Xindian	Address:	Kapitein Hatterasstraat 19, 5015 BB,	
	District, New Taipei City 231, Taiwan (R.O.C.)		Tilburg, the Netherlands	
Website:	http://www.ute.com	Website:	http://eu.ute.com	
China		Japan		
Tel:	+86-59-2310-9966	Tel:	+81-3-62310896	
E-mail:	info@cn.ute.com	E-mail:	info@jp.ute.com	
Address:	Room401C, 4F, RIHUA International Mansion,	Address:	Tosei Building 3F.,18-10	
	Xinfeng 3nd Road, Huoju Hi-tech District,		Nihonbashi-Hakozakicho, Cyuouku,	
	Xiamen, Fujan , China		Tokyo, 103-0015, Japan	
Website:	http://cn.ute.com	Website:	http://jp.ute.com	
Asia & Pa	cific / Middle East	Latin America		
Tel:	+886-2-27911556	Tel:	+52-55-5171-0528	
E-mail:	info@apac.ute.com	E-mail:	info@latin.ute.com	
	info@india.ute.com	Address:	17171 Park Row, Suite 210	
	info@mideast.ute.com		Houston, TX 77084USA (Rep.)	
Address:	4F., No. 236, ShinHu 2nd Rd.,	Website:	http://latin.ute.com	
	NeiHu Chiu, 114, Taipei,Taiwan			
Website:	http://apac.ute.com / http://mideast.ute.com			
North Ame	erica	Please sca	an QR Code to visit us :	
Tel:	+1-714-8916400			
E-mail:	info@us.ute.com / info@can.ute.com		X2,0005	
Address:	6182 Katella Ave, Cypress, CA 90630, USA			
Website:	http://us.ute.com		ED 4.40	

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Warranty Policy

The following items covered under the Unitech Limited Warranty are free from defects during normal use:

The warranty period is varied from each country. Please consult with your supplier or Unitech local office for actual length of warranty period to your purchased product.

Warranty becomes void if equipment is modified, improperly installed or used, damaged by accident or neglect, or if any parts are improperly installed or replaced by the user.

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Chapter 1 - Overview

1.1 Package

Please make sure the following contents are in the PA768 gift box. If something is missing or damaged, please contact your Unitech representative.

The Package Contents

- PA768 Rugged Handheld Computer
- Battery
- Hand Strap
- USB Type-C Cable
- Quick Start Guide

Optional Accessories

- Hand Strap
- USB 3.0 Type-C cable
- Fast charge adaptor
- 9H glass screen protector
- 1 Slot USB cradle
- 1 Slot Charging cradle
- 1 Slot Ethernet cradle
- Multi-Slot Charging / Ethernet Cradle / Battery Charger
- Standard/UHF gun grip
- Stylus with Coiled strap



1.2 Product Detail

PA768 Product View

Top View 1 Left View

Front View

Right View

- 1. Barcode Scanner Window
- 2. Receiver
- 3. LED Indicator
- 4. Front Camera
- 5. Volume Key

- 6. Scanner Triger Key
- 7. Power Key
- 8. Programmable Key
- 9. Scanner Triger Key Speaker

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Bottom View

- **10.** Microphone (sub)
- 11. Flash LED
- 12. Rear Camera
- 13. Speaker
- 14. Hand Strap Holes
- 15. NFC

- 16. Pogo Pin for gun grip
- 17. Pogo Pin for cradle
- 18. Microphone (main)
- 19. Hand Strap Hole
- 20. USB Type-C Hole



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1.3 Specifications

Svetom Epsturge				
System Features CPU	Queleamm Spandragen IM 6400 Dresseer 64hite			
CFU	Qualcomm Snapdragon™ 6490 Processor, 64bits,			
N4	Octa Cores up to 2.7 GHz			
Memory	6 GB RAM			
	64 GB UFS Flash			
OS	Powered by Android™12			
GMS certified	GMS certified			
Languages support	Multiple languages			
Display				
Screen Size	6.3" Color LCD 2160 X 1080 (FHD+) High Resolution Display			
Touchpanel	Gorilla Glass with Multi-Touch Capacitive Touch Panel,			
	support stylus, glove, wet-finger Compatibility			
	High sunlight visibility - LCD backlight up to 500nits			
Keypad				
Programmable key, Vol	ume up/down key, Left/right scan key, Power key			
Camera				
5 MP Front camera				
16 MP Rear Camera w	ith LED flash and auto-focus function,			
Indicator Type				
LED, Vibrator				
Symbologies				
Built-in 2D imager engi	ne with red laser aimer, with 1 Mpx & global shutter function			
Optional Middle range	engine support read range up to 10 meters			
Support all 1D & 2D ma	ajor barcodes			
RFID				
UHF	UHF gun grip (see RG768)			
HF	Support HF/NFC			
	Frequency 13.56Mhz			
	Support: ISO14443A/B, ISO15693, Mifare,			
	Felica(ISO/IEC18092)			

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battery with cover in one piece Extended battery 7840mAh / battery with cover in one piece (optional) Hot Swap Yes Regulatory Approvals CCC, NCC, VCCI, TELEC, CCC, SRRC, BQB, N-Mark, RoHS 2.0 Communication Bluetooth® 5.2, BLE 5, Class 1 WLAN WLAN 6E+DBS, 2.4GHz & 5GHz & 6GHz IEEE 802.11 a/b/g/n/ac/d/h/i/k/r/v/ac/ax (2x2 MU-MIMO) Security WPA3, WPA2, WPA & WEP WWAN 5G Sub 6GHz:N1/N2/N3/N5/N28/N41/N71/N77/N78/N79 (4x4 MIMO) 4G LTE(FDD) – Bands 1, 2, 3, 4, 5, 7, 8, 17, 20, 28, 71 (TDD) – Bands 38, 39, 40, 41 3G UMTS/HSPA+ – Bands 1, 2, 5, 8 2G GSM/GPRS/EDGE (850/900/1800/1900 MHz) GPS GPS/GLONASS/Gallileo/Beidou/SBAS, support L1+L5 Sensors Gyroscope, G-sensor, E-compass, Light & Proximity Sensor //O Interfaces USB 3.1 type C, support fast charging, OTG POGO PIN Bottom pogo pin for cradles (spare) rear pogo pin for grangis (spare) SIM Slot Nano SIM Slot x 2 Expansion slot Micro SD x 1, up to 256 GB Audio SmartPA Speaker support 100 dB at 10cm Dual-Microphone support noise cancellation Enclosure 167mm x 75.5mm x 17mm (H x W x D) Weight 270 g Environmental 4°F to 131°F (-20°C to 55°C)	Power Source				
Extended battery 7840mAh / battery with cover in one piece (optional) Hot Swap Yes Regulatory Approvals CE, FCC, NCC, VCCI, TELEC, CCC, SRRC, BQB, N-Mark, RoHS 2.0 Communication Bluetooth® Bluetooth® 5.2 , BLE 5, Class 1 WLAN WLAN 6E+DBS, 2.4GHz & 5GHz & 6GHz IEEE 802.11a/b/g/n/ac/d/h/i/k/r/v/ac/ax (2x2 MU-MIMO) Security WPA3, WPA2, WPA & WEP SG Sub 6GHz:N1/N2/N3/N5/N28/N41/N71/N77/N78/N79 (4x4 MIMO) 4K4 MIMO) 4G LTE(FDD) – Bands 1, 2, 3, 4, 5, 7, 8, 17, 20, 28, 71 (TDD) – Bands 38, 39, 40, 41 3G UMTS/HSPA+ – Bands 1, 2, 5, 8 2G GSM/GPRS/EDGE (850/900/1800/1900 MHz) GPS GPS/GLONASS/Gallileo/Beidou/SBAS, support L1+L5 Sensors Gyroscope, G-sensor, E-compass, Light & Proximity Sensor /O Interfaces USB USB USB 3.1 type C, support fast charging, OTG POGO PIN Bottom pogo pin for cradles (spare) rear pogo pin for gun grips (spare) Sim Slot Sim Slot Nano SIM Slot x 2 Expansion slot Micro SD x 1, up to 256 GB Audio SmartPA Speaker support 100 dB at 10cm Dual-Microphone support noise cancellation Enclosure Dimensions 167mm x 75.5mm x 17mm (H x W x	Main Battery	Hot Swappable 5100mAh Li-Polymer battery /			
Hot Swap Yes Regulatory Approvals CE, FCC, NCC, VCCI, TELEC, CCC, SRRC, BQB, N-Mark, RoHS 2.0 Communication Bluetooth® 5.2, BLE 5, Class 1 WLAN WLAN 6E+DBS, 2.4GHz & 5GHz & 6GHz IEEE 802.11a/b/g/n/ac/d/h/i/k/r/v/ac/ax (2x2 MU-MIMO) Security WPA3, WPA2, WPA & WEP WWAN 5G Sub 6GHz:N1/N2/N3/N5/N28/N41/N71/N77/N78/N79 (4x4 MIMO) 4G LTE(FDD) – Bands 1, 2, 3, 4, 5, 7, 8, 17, 20, 28, 71 (TDD) – Bands 38, 39, 40, 41 3G UMTS/HSPA+ – Bands 1, 2, 5, 8 2G GSM/GPRS/EDGE (850/900/1800/1900 MHz) GPS GPS GPS/GLONASS/Gallileo/Beidou/SBAS, support L1+L5 Sensors Gyroscope, G-sensor, E-compass, Light & Proximity Sensor /O Interfaces USB 3.1 type C, support fast charging, OTG POGO PIN Bottom pogo pin for gun grips (spare) SIM Slot Nano SIM Slot x 2 Expansion slot Micro SD x 1, up to 256 GB Audio SmartPA Speaker support noise cancellation Enclosure Dimensions Difermation 167mm x 75.5mm x 17mm (H x W x D) WSB 270 g Environmental -4°F to 131°F (-20°C to 55°C)		battery with cover in one piece			
Regulatory Approvals CC, NCC, VCCI, TELEC, CCC, SRRC, BQB, N-Mark, RoHS 2.0 Communication Bluetooth® Bluetooth® 5.2, BLE 5, Class 1 WLAN WLAN 6E+DBS, 2.4GHz & 5GHz & 6GHz IEEE 802.11a/b/g/n/ac/d/h/i/k/tr/v/ac/ax (2x2 MU-MIMO) Security WPA3, WPA2, WPA & WEP WWAN 5G Sub 6GHz:N1/N2/N3/N5/N28/N41/N71/N77/N78/N79 (4x4 MIMO) 4G LTE(FDD) – Bands 1, 2, 3, 4, 5, 7, 8, 17, 20, 28, 71 (TDD) – Bands 38, 39, 40, 41 3G UMTS/HSPA+ – Bands 1, 2, 5, 8 2G GSM/GPRS/EDGE (850/900/1800/1900 MHz) GPS GPS/GLONASS/Gallileo/Beidou/SBAS, support L1+L5 Sensors Gyroscope, G-sensor, E-compass, Light & Proximity Sensor //O Interfaces USB 3.1 type C, support fast charging, OTG POGO PIN Bottom pogo pin for gun grips (spare) SIM Slot Nano SIM Slot x 2 Expansion slot Micro SD x 1, up to 256 GB Audio SmartPA Speaker support 100 dB at 10cm Dual-Microphone support noise cancellation Enclosure Dimensions Dimensions 167mm x 75.5mm x 17mm (H x W x D) Weight 270 g Environmental	Extended battery	7840mAh / battery with cover in one piece (optional)			
CE, FCC, NCC, VCCI, TELEC, CCC, SRRC, BQB, N-Mark, RoHS 2.0 Communication Bluetooth® Bluetooth® 5.2 , BLE 5, Class 1 WLAN WLAN 6E+DBS, 2.4GHz & 5GHz & 6GHz IEEE 802.11a/b/g/n/ac/d/h/i/k/r/v/ac/ax (2x2 MU-MIMO) Security WPA3, WPA2, WPA & WEP WWAN 5G Sub 6GHz:N1/N2/N3/N5/N28/N41/N71/N77/N78/N79 (4x4 MIMO) 4G LTE(FDD) – Bands 1, 2, 3, 4, 5, 7, 8, 17, 20, 28, 71 (TDD) – Bands 38, 39, 40, 41 3G UMTS/HSPA+ – Bands 1, 2, 5, 8 2G GSM/GPRS/EDGE (850/900/1800/1900 MHz) GPS GPS/GLONASS/Gallileo/Beidou/SBAS, support L1+L5 Sensors Gyroscope, G-sensor, E-compass, Light & Proximity Sensor //O Interfaces USB USB 3.1 type C, support fast charging, OTG POGO PIN Bottom pogo pin for gun grips (spare) SIM Slot Nano SIM Slot x 2 Expansion slot Micro SD x 1, up to 256 GB Audio SmartPA Speaker support 100 dB at 10cm Dual-Microphone support noise cancellation Enclosure Dimensions 167mm x 75.5mm x 17mm (H x W x D) Weight 270 g Environmental Operating temperature -4°F to 131°F (-20°C to 55°C)	Hot Swap	Yes			
Communication Bluetooth® Bluetooth® 5.2 , BLE 5, Class 1 WLAN WLAN 6E+DBS, 2.4GHz & 5GHz & 6GHz IEEE 802.11a/b/g/n/ac/d/h/i/k/r/v/ac/ax (2x2 MU-MIMO) Security WPA3, WPA2, WPA & WEP WWAN 5G Sub 6GHz:N1/N2/N3/N5/N28/N41/N71/N77/N78/N79 (4x4 MIMO) 4G LTE(FDD) – Bands 1, 2, 3, 4, 5, 7, 8, 17, 20, 28, 71 (TDD) – Bands 38, 39, 40, 41 3G UMTS/HSPA+ 2G GSM/GPRS/EDGE (850/900/1800/1900 MHz) GPS GPS/GLONASS/Gallileo/Beidou/SBAS, support L1+L5 Sensors Gyroscope, G-sensor, E-compass, Light & Proximity Sensor //O Interfaces USB USB 3.1 type C, support fast charging, OTG POGO PIN Bottom pogo pin for cradles (spare) rear pogo pin for gun grips (spare) SIM Slot Nano SIM Slot x 2 Expansion slot Micro SD x 1, up to 256 GB Audio SmartPA Speaker support 100 dB at 10cm Dual-Microphone support noise cancellation Enclosure 167mm x 75.5mm x 17mm (H x W x D) Weight 270 g Environmental Qe°C to 55°C)	Regulatory Approvals				
Bluetooth® Bluetooth® 5.2, BLE 5, Class 1 WLAN WLAN 6E+DBS, 2.4GHz & 5GHz & 6GHz IEEE 802.11a/b/g/n/ac/d/h/i/k/r/v/ac/ax (2x2 MU-MIMO) Security WPA3, WPA2, WPA & WEP WWAN 5G Sub 6GHz:N1/N2/N3/N5/N28/N41/N71/N77/N78/N79 (4x4 MIMO) 4G LTE(FDD) – Bands 1, 2, 3, 4, 5, 7, 8, 17, 20, 28, 71 (TDD) – Bands 38, 39, 40, 41 3G UMTS/HSPA+ – Bands 1, 2, 5, 8 2G GSM/GPRS/EDGE (850/900/1800/1900 MHz) GPS GPS/GLONASS/Gallileo/Beidou/SBAS, support L1+L5 Sensors Gyroscope, G-sensor, E-compass, Light & Proximity Sensor I/O Interfaces USB 3.1 type C, support fast charging, OTG POGO PIN Bottom pogo pin for cradles (spare) rear pogo pin for gun grips (spare) SiM Slot SIM Slot Nano SIM Slot x 2 Expansion slot Micro SD x 1, up to 256 GB Audio SmartPA Speaker support 100 dB at 10cm Dual-Microphone support noise cancellation Enclosure Dimensions 167mm x 75.5mm x 17mm (H x W x D) Weight 270 g Environmental Q°r G to 131°F (-20°C to 55°C)	CE, FCC, NCC, VCCI, TI	ELEC, CCC, SRRC, BQB, N-Mark, RoHS 2.0			
WLANWLAN 6E+DBS, 2.4GHz & 5GHz & 6GHzIEEE 802.11a/b/g/n/ac/d/h/i/k/r/v/ac/ax (2x2 MU-MIMO) Security WPA3, WPA2, WPA & WEPWWAN5G Sub 6GHz:N1/N2/N3/N5/N28/N41/N71/N77/N78/N79 (4x4 MIMO) 4G LTE(FDD) – Bands 1, 2, 3, 4, 5, 7, 8, 17, 20, 28, 71 (TDD) – Bands 38, 39, 40, 41 3G UMTS/HSPA+ – Bands 1, 2, 5, 8 2G GSM/GPRS/EDGE (850/900/1800/1900 MHz)GPSGPS/GLONASS/Gallileo/Beidou/SBAS, support L1+L5 SensorsGyroscope, G-sensor, E-compass, Light & Proximity Sensor //O InterfacesUSBUSB 3.1 type C, support fast charging, OTGPOGO PINBottom pogo pin for gun grips (spare) rear pogo pin for gun grips (spare)SIM SlotNano SIM Slot x 2Expansion slotMicro SD x 1, up to 256 GB AudioAudioSmartPA Speaker support 100 dB at 10cm Dual-Microphone support noise cancellationEnclosureDimensionsDimensions167mm x 75.5mm x 17mm (H x W x D)Weight270 gEnvironmentalQo°C to 55°C)	Communication				
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Security WPA3, WPA2, WPA & WEPWWAN5G Sub 6GHz:N1/N2/N3/N5/N28/N41/N71/N77/N78/N79 (4x4 MIMO) 4G LTE(FDD) – Bands 1, 2, 3, 4, 5, 7, 8, 17, 20, 28, 71 (TDD) – Bands 38, 39, 40, 41 3G UMTS/HSPA+ – Bands 1, 2, 5, 8 2G GSM/GPRS/EDGE (850/900/1800/1900 MHz)GPSGPS/GLONASS/Gallileo/Beidou/SBAS, support L1+L5SensorsGyroscope, G-sensor, E-compass, Light & Proximity Sensor//O InterfacesUSB 3.1 type C, support fast charging, OTGPOGO PINBottom pogo pin for gun grips (spare) rear pogo pin for gun grips (spare)SIM SlotNano SIM Slot x 2Expansion slotMicro SD x 1, up to 256 GBAudioSmartPA Speaker support 100 dB at 10cm Dual-Microphone support noise cancellationEnclosureDimensionsDimensions167mm x 75.5mm x 17mm (H x W x D)Weight270 gEnvironmental-4°F to 131°F (-20°C to 55°C)	WLAN	WLAN 6E+DBS, 2.4GHz & 5GHz & 6GHz			
WWAN5G Sub 6GHz:N1/N2/N3/N5/N28/N41/N71/N77/N78/N79 (4x4 MIMO) 4G LTE(FDD) – Bands 1, 2, 3, 4, 5, 7, 8, 17, 20, 28, 71 (TDD) – Bands 38, 39, 40, 41 3G UMTS/HSPA+ – Bands 1, 2, 5, 8 2G GSM/GPRS/EDGE (850/900/1800/1900 MHz)GPSGPS/GLONASS/Gallileo/Beidou/SBAS, support L1+L5 SensorsGyroscope, G-sensor, E-compass, Light & Proximity SensorI/O InterfacesUSBUSB 3.1 type C, support fast charging, OTG POGO PINBottom pogo pin for cradles (spare) rear pogo pin for gun grips (spare)SIM SlotNano SIM Slot x 2Expansion slotMicro SD x 1, up to 256 GBAudioSmartPA Speaker support 100 dB at 10cm Dual-Microphone support noise cancellationEnclosureDimensionsDimensions167mm x 75.5mm x 17mm (H x W x D)Weight270 gEnvironmental-4°F to 131°F (-20°C to 55°C)		IEEE 802.11a/b/g/n/ac/d/h/i/k/r/v/ac/ax (2x2 MU-MIMO)			
(4x4 MIMO)4G LTE(FDD) – Bands 1, 2, 3, 4, 5, 7, 8, 17, 20, 28, 71 (TDD) – Bands 38, 39, 40, 41 3G UMTS/HSPA+ – Bands 1, 2, 5, 8 2G GSM/GPRS/EDGE (850/900/1800/1900 MHz)GPSGPS/GLONASS/Gallileo/Beidou/SBAS, support L1+L5SensorsGyroscope, G-sensor, E-compass, Light & Proximity SensorI/O InterfacesUSB 3.1 type C, support fast charging, OTGPOGO PINBottom pogo pin for cradles (spare) rear pogo pin for gun grips (spare)SIM SlotNano SIM Slot x 2Expansion slotMicro SD x 1, up to 256 GBAudioSmartPA Speaker support 100 dB at 10cm Dual-Microphone support noise cancellationEnclosure167mm x 75.5mm x 17mm (H x W x D)Weight270 gEnvironmental-4°F to 131°F (-20°C to 55°C)		Security WPA3, WPA2, WPA & WEP			
4G LTE(FDD) – Bands 1, 2, 3, 4, 5, 7, 8, 17, 20, 28, 71 (TDD) – Bands 38, 39, 40, 41 3G UMTS/HSPA+ – Bands 1, 2, 5, 8 2G GSM/GPRS/EDGE (850/900/1800/1900 MHz)GPSGPS/GLONASS/Gallileo/Beidou/SBAS, support L1+L5SensorsGyroscope, G-sensor, E-compass, Light & Proximity SensorI/O InterfacesUSB 3.1 type C, support fast charging, OTGPOGO PINBottom pogo pin for cradles (spare) rear pogo pin for gun grips (spare)SIM SlotNano SIM Slot x 2Expansion slotMicro SD x 1, up to 256 GBAudioSmartPA Speaker support 100 dB at 10cm Dual-Microphone support noise cancellationEnclosure167mm x 75.5mm x 17mm (H x W x D)Weight270 gEnvironmental-4°F to 131°F (-20°C to 55°C)	WWAN	5G Sub 6GHz:N1/N2/N3/N5/N28/N41/N71/N77/N78/N79			
(TDD) - Bands 38, 39, 40, 413G UMTS/HSPA+- Bands 1, 2, 5, 82G GSM/GPRS/EDGE (850/900/1800/1900 MHz)GPSGPS/GLONASS/Gallileo/Beidou/SBAS, support L1+L5SensorsGyroscope, G-sensor, E-compass, Light & Proximity Sensor//O InterfacesUSBUSB 3.1 type C, support fast charging, OTGPOGO PINBottom pogo pin for cradles (spare) rear pogo pin for gun grips (spare)SIM SlotNano SIM Slot x 2Expansion slotMicro SD x 1, up to 256 GBAudioSmartPA Speaker support 100 dB at 10cm Dual-Microphone support noise cancellationEnclosure167mm x 75.5mm x 17mm (H x W x D)Weight270 gEnvironmentalOperating temperature-4°F to 131°F (-20°C to 55°C)		(4x4 MIMO)			
3G UMTS/HSPA+- Bands 1, 2, 5, 82G GSM/GPRS/EDGE (850/900/1800/1900 MHz)GPSGPS/GLONASS/Gallileo/Beidou/SBAS, support L1+L5SensorsGyroscope, G-sensor, E-compass, Light & Proximity SensorI/O InterfacesUSB 3.1 type C, support fast charging, OTGPOGO PINBottom pogo pin for cradles (spare) rear pogo pin for gun grips (spare)SIM SlotNano SIM Slot x 2Expansion slotMicro SD x 1, up to 256 GBAudioSmartPA Speaker support 100 dB at 10cm Dual-Microphone support noise cancellationEnclosure167mm x 75.5mm x 17mm (H x W x D)Weight270 gEnvironmental-4°F to 131°F (-20°C to 55°C)		4G LTE(FDD) – Bands 1, 2, 3, 4, 5, 7, 8, 17, 20, 28, 71			
2G GSM/GPRS/EDGE (850/900/1800/1900 MHz)GPSGPS/GLONASS/Gallileo/Beidou/SBAS, support L1+L5SensorsGyroscope, G-sensor, E-compass, Light & Proximity SensorI/O InterfacesUSB 3.1 type C, support fast charging, OTGPOGO PINBottom pogo pin for cradles (spare) rear pogo pin for gun grips (spare)SIM SlotNano SIM Slot x 2Expansion slotMicro SD x 1, up to 256 GBAudioSmartPA Speaker support 100 dB at 10cm Dual-Microphone support noise cancellationEnclosure167mm x 75.5mm x 17mm (H x W x D)Weight270 gEnvironmental-4°F to 131°F (-20°C to 55°C)		(TDD) – Bands 38, 39, 40, 41			
GPSGPS/GLONASS/Gallileo/Beidou/SBAS, support L1+L5SensorsGyroscope, G-sensor, E-compass, Light & Proximity SensorI/O InterfacesUSBUSB 3.1 type C, support fast charging, OTGPOGO PINBottom pogo pin for cradles (spare) rear pogo pin for gun grips (spare)SIM SlotNano SIM Slot x 2Expansion slotMicro SD x 1, up to 256 GBAudioSmartPA Speaker support 100 dB at 10cm Dual-Microphone support noise cancellationEnclosureDimensions167mm x 75.5mm x 17mm (H x W x D)Weight270 gEnvironmental-4°F to 131°F (-20°C to 55°C)		3G UMTS/HSPA+ – Bands 1, 2, 5, 8			
Sensors Gyroscope, G-sensor, E-compass, Light & Proximity Sensor I/O Interfaces USB USB USB 3.1 type C, support fast charging, OTG POGO PIN Bottom pogo pin for cradles (spare) rear pogo pin for gun grips (spare) SIM Slot Nano SIM Slot x 2 Expansion slot Micro SD x 1, up to 256 GB Audio SmartPA Speaker support 100 dB at 10cm Dual-Microphone support noise cancellation Enclosure Dimensions 167mm x 75.5mm x 17mm (H x W x D) Weight 270 g Environmental -4°F to 131°F (-20°C to 55°C)		2G GSM/GPRS/EDGE (850/900/1800/1900 MHz)			
I/O Interfaces USB USB 3.1 type C, support fast charging, OTG POGO PIN Bottom pogo pin for cradles (spare) rear pogo pin for gun grips (spare) SIM Slot Nano SIM Slot x 2 Expansion slot Micro SD x 1, up to 256 GB Audio SmartPA Speaker support 100 dB at 10cm Dual-Microphone support noise cancellation Enclosure Dimensions 167mm x 75.5mm x 17mm (H x W x D) Weight 270 g Environmental -4°F to 131°F (-20°C to 55°C)	GPS	GPS/GLONASS/Gallileo/Beidou/SBAS, support L1+L5			
USBUSB 3.1 type C, support fast charging, OTGPOGO PINBottom pogo pin for cradles (spare) rear pogo pin for gun grips (spare)SIM SlotNano SIM Slot x 2Expansion slotMicro SD x 1, up to 256 GBAudioSmartPA Speaker support 100 dB at 10cm Dual-Microphone support noise cancellationEnclosure167mm x 75.5mm x 17mm (H x W x D)Weight270 gEnvironmental-4°F to 131°F (-20°C to 55°C)	Sensors	Gyroscope, G-sensor, E-compass, Light & Proximity Sensor			
POGO PINBottom pogo pin for cradles (spare) rear pogo pin for gun grips (spare)SIM SlotNano SIM Slot x 2Expansion slotMicro SD x 1, up to 256 GBAudioSmartPA Speaker support 100 dB at 10cm Dual-Microphone support noise cancellationEnclosureDimensions167mm x 75.5mm x 17mm (H x W x D)Weight270 gEnvironmentalOperating temperature-4°F to 131°F (-20°C to 55°C)	I/O Interfaces				
rear pogo pin for gun grips (spare)SIM SlotNano SIM Slot x 2Expansion slotMicro SD x 1, up to 256 GBAudioSmartPA Speaker support 100 dB at 10cm Dual-Microphone support noise cancellationEnclosureDimensionsDimensions167mm x 75.5mm x 17mm (H x W x D)Weight270 gEnvironmentalOperating temperature-4°F to 131°F (-20°C to 55°C)	USB	USB 3.1 type C, support fast charging, OTG			
SIM SlotNano SIM Slot x 2Expansion slotMicro SD x 1, up to 256 GBAudioSmartPA Speaker support 100 dB at 10cm Dual-Microphone support noise cancellationEnclosureDimensions167mm x 75.5mm x 17mm (H x W x D)Weight270 gEnvironmentalOperating temperature-4°F to 131°F (-20°C to 55°C)	POGO PIN	Bottom pogo pin for cradles (spare)			
Expansion slotMicro SD x 1, up to 256 GBAudioSmartPA Speaker support 100 dB at 10cm Dual-Microphone support noise cancellationEnclosureDimensions167mm x 75.5mm x 17mm (H x W x D)Weight270 gEnvironmentalOperating temperature-4°F to 131°F (-20°C to 55°C)		rear pogo pin for gun grips (spare)			
AudioSmartPA Speaker support 100 dB at 10cm Dual-Microphone support noise cancellationEnclosureDimensions167mm x 75.5mm x 17mm (H x W x D)Weight270 gEnvironmentalOperating temperature-4°F to 131°F (-20°C to 55°C)	SIM Slot	Nano SIM Slot x 2			
Dual-Microphone support noise cancellationEnclosureDimensions167mm x 75.5mm x 17mm (H x W x D)Weight270 gEnvironmentalOperating temperature-4°F to 131°F (-20°C to 55°C)	Expansion slot	Micro SD x 1, up to 256 GB			
Enclosure Dimensions 167mm x 75.5mm x 17mm (H x W x D) Weight 270 g Environmental Operating temperature -4°F to 131°F (-20°C to 55°C)	Audio	SmartPA Speaker support 100 dB at 10cm			
Dimensions167mm x 75.5mm x 17mm (H x W x D)Weight270 gEnvironmentalOperating temperature-4°F to 131°F (-20°C to 55°C)		Dual-Microphone support noise cancellation			
Weight 270 g Environmental Operating temperature -4°F to 131°F (-20°C to 55°C)	Enclosure				
Environmental Operating temperature -4°F to 131°F (-20°C to 55°C)	Dimensions	167mm x 75.5mm x 17mm (H x W x D)			
Operating temperature -4°F to 131°F (-20°C to 55°C)	Weight	270 g			
	Environmental				
Storage temperature -40°F to 158°F (-40°C to 70°C), without battery	Operating temperature	-4°F to 131°F (-20°C to 55°C)			
	Storage temperature	-40°F to 158°F (-40°C to 70°C), without battery			

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unitech	PA768 User's Manua			
Relative Humidity	5% ~ 95% (Non-Condensing)			
Drop Specification	1.8 meter with bumper			
	1.5 meter without bumper			
Sealing	IP67			
Vibration/Tumble test	Tumble 600 times (1.6 ft./0.5 m)			
Software				
MDM Software	SOTI, AirWatch, 42Gears, 12Manage, and MoboLink			
Accessories				
Hand Strap	■ 1 Slot USB cradle			
USB 3.0 Type-C cabl	le 1 Slot Charging cradle			
Fast charge adaptor	1 Slot Ethernet cradle			
9H glass screen prote	ector Multi-Slot Charging / Ethernet Cradle /			
	Battery Charger			
	Standard/UHF gun grip			
	Stylus with Coiled strap			

Android is a trademark of Google LLC.

Note:

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The device is restricted to indoor use only when operating in the 5150 to 5350 MHz frequency range.

AT	BE	BG	HR	CY	CZ	DK
EE	FI	FR	DE	EL	HU	IE
	LV					
PT	RO	SK	SI	ES	SE	UK
IS	LI	NO	CH	TR		

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Radio type / D	Maximum Output Power	
COM	GSM900	34dBm
GSM	DCS 1800	31.5dBm
TIMTS	FDD 1	24.5dBm
UMTS	FDD 8	24.5dBm
	FDD 1	24dBm
	FDD 3	24dBm
	FDD 7	24dBm
LTE	FDD 8	24.5dBm
	FDD 20	24.5dBm
	FDD 28	24.5dBm
	TDD 38	24dBm
	TDD 40	24dBm
	NR n1	24dBm
	NR n3	24dBm
5G NR	NR n28	24.5dBm
JUIK	NR n41	26dBm
	NR n77	26dBm
	NR n78	26dBm
	IEEE 802.11b	18dBm
WLAN 2.4GHz	IEEE 802.11g	16dBm
WLAIN 2.40112	IEEE 802.11n	18dBm
	IEEE 802.11ax	17dBm
	IEEE 802.11a	17dBm
WLAN 5GHz	IEEE 802.11n	18dBm
WLAIN JUIIZ	IEEE 802.11ac	16dBm
	IEEE 802.11ax	16dBm
WLAN 6GHz	IEEE 802.11ax	15dBm
Bluetooth	Bluetooth	8.5dBm
RFID	NFC	<25dBuA/m

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1.4 Getting Started

1.4.1 Inserting the Micro SD/Nano SIM Card

1. Pick out the Micro SD/Nano SIM card holder.



2. You may put in 2 SIM cards or one SIM card and one SD card at a time.





1.4.2 Install the Battery

1. Align the battery with the battery compartment following the picture below.



2. Press and hold both of the plastic buckles at the bottom, then push against the front.



3. Press down the battery to secure in place





1.4.3 Remove the battery

1. Press and hold both of the plastic buckles at the bottom.



2. Push the battery against the front and lift to remove.





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1.4.4 Charging the Battery

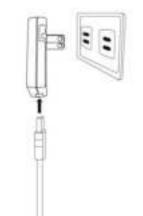
Before using the PA768 for the first time, you need to charge it for about 24 hours. For the regular use, you can charge the PA768 for 4 hours to recharge the battery to full capacity.

To charge the PA768, please use the USB charging cable or the cradle.

Connect the type C USB cable to the USB port on PA768 and the other end of the USB cable connect to AC power adapter into the electrical outlet on the USB plug.

The charging LED indicator on PA768 is turning red when it is in charging state.







1.4.5 Turning on the PA768 for the first time

It is recommended to fully charge PA768 before first use. You can now start up your device to set up the languages, WLAN setting, and date and time.

Power Button

Turn ON your device by pressing the power button on the side of the PA768.





1.4.6 Checking the LED status

Checking the Battery Status

LED		Description	
Red Light	•	Battery Charging	
Green Light	•	Battery Fully charged	
	•	Barcode scan good read	
Blue Light	\bullet	Message	
If scanner app is running, LED is controlled by the scanner app. No LED (Red and Green) display when battery is out. (even with AC IN)			

WARNING! There is a risk of fire and burns if the battery is handled improperly. DO NOT disassemble, crush, puncture, short external contacts, or dispose the battery pack in fire or water. DO NOT attempt to open or service the battery. Dispose of used batteries according to local recycling guidelines in your area.