

# UT12P

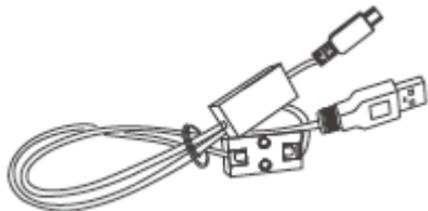
## Quick Start Guide



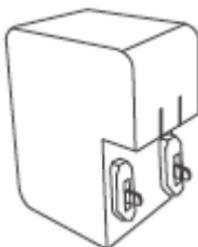




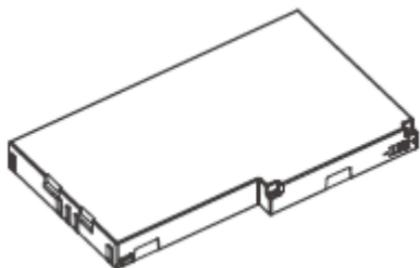
## WHAT'S IN THE BOX



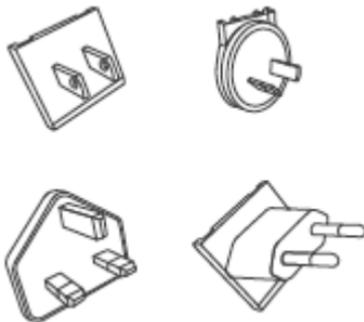
**Type-C cable**



**Charging adaptor**



**Standard battery**



**Converter plugs**



1. Please use this device indoor in the European Community using frequency in 5150 - 5250MHz to reduce the potential interference. Restriction in BE, BG, CZ, DK, DE, EE, IE, EL, ES, FR, HR, IT, CY, LV, LT, LU, HU, MT, NL, AT, PL, PT, RO, SI, SK, FI, SE, and UK.
2. Please do not use this device in the place where the use of electronic device is not allowed, such as airports, hospitals, gas stations, etc.
3. For your safety and the safety of others, please do not use this device while driving a vehicle.
4. To avoid potential safety problems, please do not put this device near the vehicle's airbag.
5. For your safety, please do not use this device during thunderstorms.
6. Although this device is waterproof, please do not leave this device for long time in areas with water or moisture.
7. Please use this device in the environment where the temperature is within  $-20 - +45$  °C and put it in the environment where the temperature is within  $-30 - +70$  °C. Otherwise, its performance and service life may be affected.
8. Please use the original rechargeable lithium battery. Because low-quality batteries will affect the performance and service life of the device, and may lead to explosion.
9. Please do not disassemble this device, and send to our authorized service centers for repair.
10. After the device has reached its service life, please discard it in a proper way to avoid environmental pollution.
11. When replacing the battery or during the use of an external power supply, please shut down the device completely before removing the battery or disconnecting the external power supply to prevent damage.
12. This device is a Class B product, which may cause radio interference. Please take necessary preventive measures.

## Charge the Battery

During normal charging, the status bar will display the charging icon when screen is on.

When charging is completed, the status bar will display the full battery icon when screen is on.

### Charge with travel charger

1. Insert the small plug end of the USB data cable into the TYPE-C port of the device.
2. Insert the large plug end of the USB data cable into the travel charger plug.
3. Insert the travel charger plug into a power outlet to charge.

### Charge with USB data cable

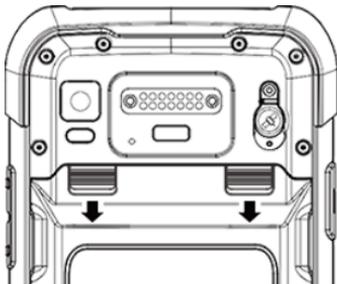
1. Insert the small plug end of the USB data cable into the TYPE-C port of the device.
2. Insert the large plug end into the USB port of the computer to charge.



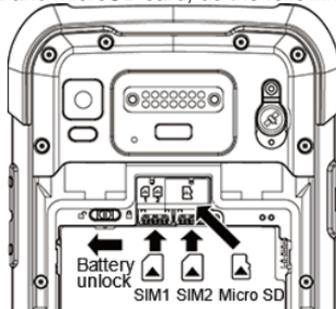
- When the power is low, please charge the battery. And to maintain battery life, it is recommended to deplete its power before charging.
- Excessive charging will shorten the battery life. Thus, when the charger is not in use, please remove it from the power supply and do not connect it to the battery for more than one week.
- Temperature affects the battery charging limit. Thus, the battery may need to be cooled or warmed up before charging.
- Please use the battery for its original intended purpose to prevent short circuit which may occur when a conductive material connects the battery's positive and negative terminals.
- Please do not use a battery that is damaged.
- Please do not place the battery in extremely cold or hot areas, which will shorten the battery life and cause the device to malfunction, even if the battery is fully charged.
- Please do not put the battery in a fire.
- Please discard the battery in a proper manner or take the battery to a battery recycling station and dispose waste batteries in accordance with local laws and regulations.

## Insert SIM Card, MicroSD Card and Battery

1. Power off the device.
2. Flip the device to its rear, push the back cover lock to the open position according to the direction as follows:

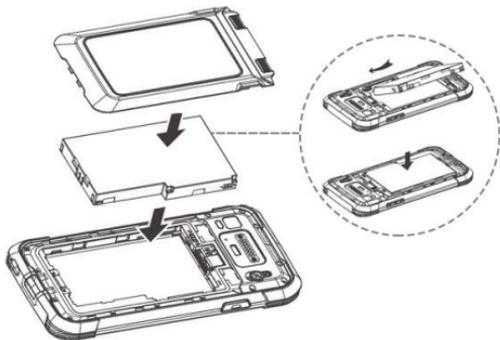


3. Remove the battery cover.
4. To insert the SIM card and MicroSD card, do the following:



- a. Face the SIM card metal contacts downwards and push into the slot.
- b. Face the Micro SD card metal contacts downwards and push into the slot.

5. To insert the battery, do the following:
  - a. Align the contacts of the battery with the terminals of the battery compartment and put in the battery gently.
  - b. Push the battery lock to the locked position.
  - c. Attach the battery cover.
  - d. Push the battery cover lock to the locked position.



## Turn the Device on and off

### Turning the device on

Firmly press and hold the power button  until the boot screen appears.

### Turning the device on

Firmly press and hold the power button  to display the options menu, and select the Power off option to shutdown.

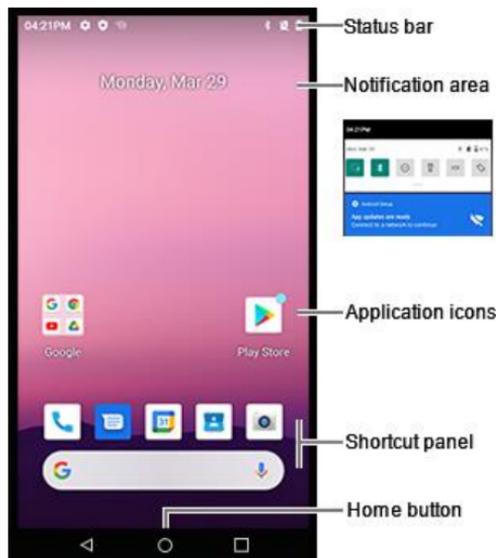
### Going into sleep mode and wake the device

If the device has been idle for a period of time, the screen will automatically turn off and go into sleep mode.

1. With the device turned on, press the power button  to turn off the screen and go into sleep mode.
2. Press the power button  again to wake the device.

# Home Screen Operations

After turning on the device, swipe upwards on the screen to unlock. The main interface of the home screen is as follows:



## Notification area

To open the notification panel, hold the status bar and drag down.

## Shortcut panel

To add a shortcut icon, press and hold the icon and drag it down to "Shortcut panel".

## Application icons

To see all the included applications, slide the screen left and right.

To move an application, press and hold the icon, and drag it to the desired location on the screen.

To remove an icon, press and hold the icon, and drag up to the "Remove" icons.

To uninstall an application, press and hold the icon, and drag up to "Uninstall" icons until the icon turns red.

## Home button

After opening an application, to close it and return to the home screen, touch the home button.

## Folder

On the home screen, folders are automatically formed when you drag an icon onto another one. To rename the folder, touch the folder, click on its label, and input a new name.

## Change wallpaper

Press and hold a blank area on the home screen, select "Wallpaper" → "Photos" / "Live Wallpaper Picker" / "Wallpapers".

## Connect to a Computer

1. Connect the type-C cable with UT12P and your computer.
2. Open the notification panel. Notification “Android System·Charging this device via USB” shows.
3. Click on the notification, tap it, and select a USB preference:  
Including file transfer, USB tethering, MIDI, PTP and no data transfer.

## Camera and Videos

1. Tap the shortcut icon .
2. To take a photo, tap .
3. To take a video, tap .

After taking a photo or video, tap application Photo , select the target photo or video, and share / delete it.

## WLAN / Bluetooth / VPN connection



Slide the home screen up, and tap the app icon **Setting**.

### Wi-Fi connection

1. Find “Network & Internet”.
2. Tap “Wi-Fi”, and turn switch “Use Wi-Fi” to “ON” status.
3. Select the target Wi-Fi from the list of available networks.
4. Input the password.

### Bluetooth connection

Photos, videos and music files can be shared with family members and friends via Bluetooth.

1. Find “Connected devices”.
2. Tap “Connection preferences” → “Bluetooth”, and turn switch “On” to “ON” status.
3. Tap “Pair new device”, select the target device from the list of available Bluetooth devices, and tap “PAIR”.

When the request of Bluetooth connection is accepted by the owner of the external Bluetooth device, the connection to the external device is completed.

### VPN connection

1. Find “Network & Internet”.
2. Tap “Advanced” → “VPN”.
3. Tap “+”, and add a VPN profile.

## Normal Mode RF Power Range (GSM, WCDMA)

<b>Mode</b>	<b>Range(dBm)</b>
GSM900	31.00-33.00
GPRS900(1 Slot)	31.00-33.00
GPRS900(2 Slots)	30.00-32.00
GPRS900(3 Slots)	28.50-30.50
GPRS900(4 Slots)	26.00-28.00
EGPRS (8PSK, 1-Slot)	24.50-26.50
EGPRS (8PSK, 2-Slots)	23.00-25.00
EGPRS (8PSK, 3-Slots)	22.00-24.00
EGPRS (8PSK, 4-Slots)	21.00-23.00
GSM1800	28.50-30.50
GPRS1800(1 Slot)	28.50-30.50
GPRS1800(2 Slots)	28.00-30.00
GPRS1800(3 Slots)	27.00-29.00
GPRS1800(4 Slots)	25.50-27.50
EGPRS (8PSK, 1-Slot)	24.00-26.00
EGPRS (8PSK, 2-Slots)	22.50-24.50
EGPRS (8PSK, 3-Slots)	21.50-23.50
EGPRS (8PSK, 4-Slots)	20.50-22.50
WCDMA Band 1 RMC	21.50-23.50
HSDPA Band 1	20.50-22.50
HSUPA Band 1	19.50-22.50
WCDMA Band 8 RMC	21.50-23.50
HSDPA Band 8	20.50-22.50
HSUPA Band 8	19.50-22.50

## Normal Mode RF Power Range (LTE)

Mode	Bandwidth	RB	Modulation	Range(dBm)
LTE Band 1	20 MHz	1	QPSK	19.80-21.80
		50		19.00-21.00
		100		19.00-21.00
		1	16QAM	19.00-21.00
		50		18.00-20.00
		100		18.00-20.00
	15 MHz	1	QPSK	19.80-21.80
		36		19.00-21.00
		75		19.00-21.00
		1	16QAM	19.00-21.00
		36		18.00-20.00
		75		18.00-20.00
	10 MHz	1	QPSK	19.80-21.80
		25		19.00-21.00
		50		19.00-21.00
		1	16QAM	19.00-21.00
		25		18.00-20.00
		50		18.00-20.00
	5 MHz	1	QPSK	19.80-21.80
		12		19.00-21.00
25		19.00-21.00		
1		16QAM	19.00-21.00	
12			18.00-20.00	
25			18.00-20.00	

Mode	Bandwidth	RB	Modulation	Range(dBm)
LTE Band 3	20 MHz	1	QPSK	20.80-22.80
		50		20.00-22.00
		100		20.00-22.00
		1	16QAM	20.00-22.00
		50		19.00-21.00
		100		19.00-21.00
	15 MHz	1	QPSK	20.80-22.80
		36		20.00-22.00
		75		20.00-22.00
		1	16QAM	20.00-22.00
		36		19.00-21.00
		75		19.00-21.00
	10 MHz	1	QPSK	20.80-22.80
		25		20.00-22.00
		50		20.00-22.00
		1	16QAM	20.00-22.00
		25		19.00-21.00
		50		19.00-21.00
	5 MHz	1	QPSK	20.80-22.80
		12		20.00-22.00
		25		20.00-22.00
		1	16QAM	20.00-22.00
		12		19.00-21.00
		25		19.00-21.00
3 MHz	1	QPSK	20.80-22.80	
	8		20.00-22.00	
	15		20.00-22.00	
	1	16QAM	20.00-22.00	
	8		19.00-21.00	
	15		19.00-21.00	

Mode	Bandwidth	RB	Modulation	Range(dBm)
LTE Band 3	1.4 MHz	1	QPSK	20.80-22.80
		3		20.00-22.00
		6		20.00-22.00
		1	16QAM	20.00-22.00
		3		19.00-21.00
		6		19.00-21.00

Mode	Bandwidth	RB	Modulation	Range(dBm)
LTE Band 7	20 MHz	1	QPSK	19.80-21.80
		50		19.00-21.00
		100		19.00-21.00
		1	16QAM	19.00-21.00
		50		18.00-20.00
		100		18.00-20.00
	15 MHz	1	QPSK	19.80-21.80
		36		19.00-21.00
		75		19.00-21.00
		1	16QAM	19.00-21.00
		36		18.00-20.00
		75		18.00-20.00
	10 MHz	1	QPSK	19.80-21.80
		25		19.00-21.00
		50		19.00-21.00
		1	16QAM	19.00-21.00
		25		18.00-20.00
		50		18.00-20.00
	5 MHz	1	QPSK	19.80-21.80
		12		19.00-21.00
		25		19.00-21.00
1		16QAM	19.00-21.00	
12			18.00-20.00	
25			18.00-20.00	

Mode	Bandwidth	RB	Modulation	Range(dBm)
LTE Band 8	10 MHz	1	QPSK	21.00-23.00
		25		20.00-22.00
		50		20.00-22.00
		1	16QAM	20.00-22.00
		25		19.00-21.00
		50		19.00-21.00
	5 MHz	1	QPSK	21.00-23.00
		12		20.00-22.00
		25		20.00-22.00
		1	16QAM	20.00-22.00
		12		19.00-21.00
		25		19.00-21.00
	3 MHz	1	QPSK	21.00-23.00
		8		20.00-22.00
		15		20.00-22.00
		1	16QAM	20.00-22.00
		8		19.00-21.00
		15		19.00-21.00
	1.4 MHz	1	QPSK	21.00-23.00
		3		21.00-23.00
		6		21.00-23.00
1		16QAM	20.00-22.00	
3			19.00-21.00	
6			19.00-21.00	

Mode	Bandwidth	RB	Modulation	Range(dBm)
LTE Band 20	20 MHz	1	QPSK	21.00-23.00
		50		20.50-22.50
		100		20.50-22.50
		1	16QAM	20.50-22.50
		50		19.00-21.00
		100		19.00-21.00
	15 MHz	1	QPSK	21.00-23.00
		36		20.50-22.50
		75		20.50-22.50
		1	16QAM	20.50-22.50
		36		19.00-21.00
		75		19.00-21.00
	10 MHz	1	QPSK	21.00-23.00
		25		20.50-22.50
		50		20.50-22.50
		1	16QAM	20.50-22.50
		25		19.00-21.00
		50		19.00-21.00
	5 MHz	1	QPSK	21.00-23.00
		12		20.50-22.50
25		20.50-22.50		
1		16QAM	20.50-22.50	
12			19.00-21.00	
25			19.00-21.00	

Mode	Bandwidth	RB	Modulation	Range(dBm)
LTE Band 28	20 MHz	1	QPSK	21.50-23.50
		50		20.50-22.50
		100		20.50-22.50
		1	16QAM	20.50-22.50
		50		19.50-21.50
		100		19.50-21.50
	15 MHz	1	QPSK	21.50-23.50
		36		20.50-22.50
		75		20.50-22.50
		1	16QAM	20.50-22.50
		36		19.50-21.50
		75		19.50-21.50
	10 MHz	1	QPSK	21.50-23.50
		25		20.50-22.50
		50		20.50-22.50
		1	16QAM	20.50-22.50
		25		19.50-21.50
		50		19.50-21.50
	5 MHz	1	QPSK	21.50-23.50
		12		20.50-22.50
		25		20.50-22.50
		1	16QAM	20.50-22.50
		12		20.00-22.00
		25		20.00-22.00
3 MHz	1	QPSK	21.50-23.50	
	8		20.50-22.50	
	15		20.50-22.50	
	1	16QAM	20.50-22.50	
	8		20.00-22.00	
	15		20.00-22.00	

Mode	Bandwidth	RB	Modulation	Range(dBm)
LTE Band 38	20 MHz	1	QPSK	20.00-22.00
		50		19.00-21.00
		100		19.00-21.00
		1	16QAM	19.50-21.50
		50		18.00-20.00
		100		18.00-20.00
	15 MHz	1	QPSK	20.00-22.00
		36		19.00-21.00
		75		19.00-21.00
		1	16QAM	19.50-21.50
		36		18.00-20.00
		75		18.00-20.00
	10 MHz	1	QPSK	20.00-22.00
		25		19.00-21.00
		50		19.00-21.00
		1	16QAM	19.50-21.50
		25		18.00-20.00
		50		18.00-20.00
	5 MHz	1	QPSK	20.00-22.00
		12		19.00-21.00
25		19.00-21.00		
1		16QAM	19.50-21.50	
12			18.00-20.00	
25			18.00-20.00	

Mode	Bandwidth	RB	Modulation	Range(dBm)
LTE Band 40	20 MHz	1	QPSK	20.00-22.00
		50		19.00-21.00
		100		19.00-21.00
		1	16QAM	19.00-21.00
		50		18.00-20.00
		100		18.00-20.00
	15 MHz	1	QPSK	20.00-22.00
		36		19.00-21.00
		75		19.00-21.00
		1	16QAM	19.00-21.00
		36		18.50-20.50
		75		18.50-20.50
	10 MHz	1	QPSK	20.00-22.00
		25		19.00-21.00
		50		19.00-21.00
		1	16QAM	19.00-21.00
		25		18.00-20.00
		50		18.00-20.00
	5 MHz	1	QPSK	20.00-22.00
		12		19.00-21.00
25		19.00-21.00		
1		16QAM	19.00-21.00	
12			18.00-20.00	
25			18.00-20.00	

## Normal Mode RF Power Range (WLAN/Bluetooth)

Band (GHz)	Mode	Channel	Freq. (MHz)	Range(dBm)
WIFI 2.4G (2.4~2.4835)	802.11b	CH1	2412	11.50-13.50
		CH7	2442	11.50-13.50
		CH13	2472	11.50-13.50
	802.11g	CH1	2412	11.50-13.50
		CH7	2442	11.50-13.50
		CH13	2472	11.50-13.50
	802.11n(HT20)	CH1	2412	10.50-12.50
		CH7	2442	10.50-12.50
		CH13	2472	10.50-12.50
WIFI 5.2 G (5.15~5.25)	802.11ac(VHT20)	36	5180	10.00-12.00
		44	5220	10.00-12.00
		48	5240	10.00-12.00
	802.11ac(VHT40)	38	5190	10.00-12.00
		46	5230	10.00-12.00
	802.11ac(VHT80)	42	5210	9.00-11.00
WIFI 5.8G (5.725~5.850)	802.11ac(VHT20)	149	5745	12.50-14.50
		157	5785	12.50-14.50
		165	5825	12.50-14.50
	802.11ac(VHT40)	151	5755	12.00-14.00
		159	5795	12.00-14.00
	802.11ac(VHT80)	155	5775	12.00-14.00

Band (GHz)	Mode	Range(dBm)
Bluetooth (2.4~2.4835)	GFSK	3.00-5.00
	$\pi$ /4DQPSK	1.00-3.00
	8-DPSK	1.00-3.00
	BLE	2.00-4.00

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This device complies with Part 15 of the FCC Rules. Operation is subject to the following 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 Shenzhen UniStrong Science & Technology Co.,Ltd. may void the FCC authorization to operate this device.

NOTE: 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 device 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 device does cause harmful interference to radio or television reception, which can be determined by turning the device 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 device and receiver.
- Connect the device 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.



This device has been tested and found to comply with European Council Directive 2014/53/EU, thereby satisfying the requirements for CE Marking and sale within the European Economic Area (EEA). These requirements are designed to provide reasonable protection against harmful interference when the device is operated in a residential or commercial environment.



*To be the leading provider of high-precision professional,  
solution & service in the global geospatial industry*

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