P7 Handheld controller
Product Specification

Product Name: P7 Handheld controller
File version: V1.0

1 Product Design Sketch



Figure 1 Product rendering

2 Product Technical Specifications

2.1 General Overview of Technical Specifications

Product Type	Chinese Version	Global Version (Excluding China)
PDA	BT2.1+EDR/3.0/4.1+HS	BT2.1+EDR/3.0/4.1+HS
WiFi	802.11 a/b/g/n/ac	802.11 a/b/g/n/ac
network	4G network coverage across all carriers, including China Mobile, China Unicom, and China Telecom	4G network coverage across all carriers, including China Mobile, China Unicom, and China Telecom
Sim card slot	Dual Nano SIM	Dual Nano SIM
TF card slot	Supports up to 512GB MicroSD expansion	Supports up to 512GB MicroSD expansion
running memory	6GB (8GB available)	6GB (8GB available)
Storage memory	128GB (256GB available)	128GB (256GB available)

pilot lamp	3	3
key	76	76
electronic blister	support	support
electronic compass	support	support
camera	13-megapixel rear main camera 8MP rear macro camera flash lamp	13-megapixel rear main camera 8MP rear macro camera flash lamp
GNSS	GPS：L1 C/A GLONASS: G1 BeiDou: B1I, B1C	GPS：L1 C/A GLONASS: G1 BeiDou: B1I, B1C
	Single-point positioning, no original data output	Single-point positioning, no raw data output

2.2 Detailed technical specifications

2.2.1 Physical Properties

Size	179.5*290.5*28.0mm
Weight	820g
Working Temperature	-30 °C to +60 °C
Storage Temperature	-40 °C to +80 °C
Water and dust resistance rating	IP67
Humidity	5%-95%, non-condensable
Decline	1.5 meters fall

2.2.2 System Platform

Operating system	Chinese version: Android 14,8-core 2.2GHz	Global version: Android 14,8-core 2.2GHz
Running memory	6GB LPDDR4X (8GB LPDDR4X optional)	
Memory	128GB (256GB available)	
External storage	Supports up to 512GB	

2.2.3 Interface Communication

Display screen	7.0-inch AMOLED HD touch screen	
Key	76 keys, 3 indicator lights, detailed definitions in Chapter 3	
Junctor	Standard Type-C for charging and data transfer	
Communication	Bluetooth: BT2.1+EDR/3.0/4.1+HS WiFi：2.4G/5G, 802.11 ac/a/b/g/n	
Network	China version: GSM:900/1800 WCDMA:B1/B5/B8 LTE-TDD:B34/B38/B39/B40/B41 LTE-FDD:B1/B3/B5/B8	Global version: GSM: 850/900/1800/1900 WCDMA:B1/B2/B4/B5/B8 LTE-TDD:B38/B39/B40/B41 LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B17/B20/B28
Other interfaces	External memory card slot External SIM card slot	

2.2.4 Power Supply Parameters

Internal battery	3.8V, 10400mAh, 39.52Wh
Charging voltage	DC 5V3A / 9V2A
Adapter	Type-C PD adapter
Operate time	More than 15 hours

3.1 Operation Guide

3.1Key definition

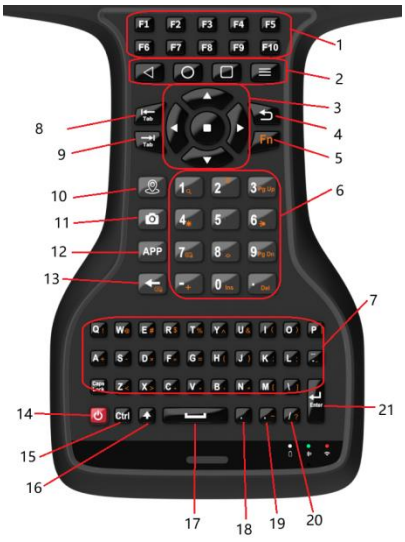


Figure 2 Keyboard Layout

Number	Key	Function declaration
1	Special function key	F1-F10 can be customized by users in Settings.
2	Navigation key	Return to Desktop> Multitasking> Menu
3	Direction key	Use the up, down, left, or right arrow keys to move the cursor or positioning point. Press the confirm key.
4	Eject key	Exit/Return
5	Fn key	Press and hold Fn to activate the function indicated by the brown icon on the keyboard
6	Digital keypad area	Enter a number, decimal point, or minus sign
7	Alphabet Keyboard	input alphabet
8	Tab key	Tab key to go back to the previous location or move the input focus to the previous control
9	Tab key	Press Tab to move to the next location or shift the focus to the next control
10	Measurement key	You can customize features in Settings.
11	Photo key	Turn on the camera to take photos
12	Utility key	You can customize features in Settings.
13	Backspace key	Delete the last character in the input box
14	Power switch	Power on, off, sleep, or wake
15	Ctrl key	Use the Control key with other keys for quick actions
16	Shift key	Case switching
17	Space bar	Enter a space
18	Comma	Enter a comma
19	Full stop	Enter a period
20	Right slash	Enter division or a delimiter
21	Carriage return	Enter new line

3.2Indicator definition



Figure 3: Indicator light position

Indicator status	Indicator definition
The green indicator light 1 is flashing.	Charging
The green indicator light 1 is always on	Charge complete
The red indicator light 1 is always on	Low battery
The green indicator light 2 is always on	Bluetooth is connected
The green indicator light 3 is always on	WiFi is connected

FCC Warning:

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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

The device are restricted to indoor operation only in the band 5150-5250 MHz.

IC warning statements:

-English Warning Statement:

RSS-GEN ISSUE 5, 8.4 User manual notice

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference.

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

The digital apparatus complies with Canadian CAN ICES-3 (B)/NMB-3(B).

-French Warning Statement:

RSS - Gen version 5, 8.4 avis du manuel de l'utilisateur
Cet appareil contient un émetteur / récepteur sans licence conforme au RSS sans licence d'innovation, science et développement économique Canada.L'opération doit satisfaire aux deux conditions suivantes:
Cet équipement peut ne pas causer d'interférence.
L'équipement doit accepter toute interférence, y compris toute interférence qui pourrait entraîner un fonctionnement indésirable de l'équipement.

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment and meets RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that are deemed to comply without testing of specifc absorption ratio (SAR).
Cet équipement est conforme aux limites d'exposition aux rayonnements énoncées pour un environnement non contrôlé et respecte les règles d'exposition aux fréquences radioélectriques (RF) CNR-102 de l'IC. Cet équipement émet une énergie RF très faible qui est considérée conforme sans évaluation du débit d'absorption spécifque (DAS).

The device are restricted to indoor operation only in the band 5150-5250 MHz.

FCC Warning:

RF Exposure Information (SAR)
This device meets the government's requirements for exposure to radio waves. This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

The exposure standard employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg. Tests for SAR are conducted using standard operating positions accepted by the FCC with the EUT transmitting at the specified power level in different channels. The FCC has granted an Equipment Authorization for this device with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this device is on file with the FCC and can be found under the Display Grant section of www.fcc.gov/oet/ea/fccid.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.