Seuic

UTOUCH RFID HANDHELD TERMINAL

PRODUCT SPECIFICATION V0.1

1. UTOUCH PERFORMANCE CHARACTERISTICS

CPU	Cortex™-A53 Octa-core 1.8 GHz
Operating System	Android 9.0
Memory	4GB+64GB
SIM	Micro SIM*1 + PSAM*1
Expansion Slot	Micro SD Card, 128GB SDHC compatible
Interface/Communication	Waterproof Type-C USB, Support USB2.0 and OTG。
Keypad	Volume+/-, Power, 2 Side Scan Keys, Handle Trigger, 1 Custom Key
Display	5.2-inch Capacitive Display
	1920(H)×1080(W)
Power	6400mAh Detachable Li-ion battery
	Bottom Type-C USB, Support QC3.0 Fast Charge
	Support Cradle Charging
Notification	Sound, Vibrator, LED indicator
Audio	Built-In Loudspeaker(1W), Built-In Dual Microphone(Noise Reduction), 3.5mm Stereo Headset Interface
Sensor	Acceleration sensor, Electronic compass, Optical sensor and gyroscope
Dimension	156(H)×127.5(W)×79.5(T)
Weight (including standard battery)	480g (Battery Included, Varies by Different Configurations)
Operating Temp	-20℃ to +50℃
Storage Temp	-40℃ to +50℃ (Battery Included) -40℃ to +70℃ (Battery Excluded)
Humidity	5% to 95% RH Non-Condensing
Sealing	IP65
Drop Specification	1.5m
ESD	±15kv Air Discharge, ±8kv Direct Discharge

2. UTOUCH DATA CAPTURE OPTIONS

Function 1	2D Image Scan Engine (Option 1)
Sensor Resolution	1600（H）× 1200（V）
Rotate	360°
Pitch Angle	±60°
Skew Tolerance	±55°
Scan Depth	5mil Code39 (9 Characters) 62-138mm； 20mil Code128 (12 Characters) 100-550mm
Image Frame Rate	15fps
Code Support	1D： UPC/EAN, UPC/EAN with supplementals, Code128, GS1-128, Code 39, Trioptic, Code 32, Code 93, Code11, Matrix 2 of 5, Interleaved 2 of 5, IATA 2 of 5, Industrial 2 of 5, Codabar, MSI, Code11, etc. 2D： PDF417, MicroPDF417, Composite Code, Data Matrix, Maxicode, QR Code, MicroQR, Aztec
Light Source System	White Light, Red Light Projection
Minimum Printing Contrast	40%
Function 1	2D Image Scan Engine (Option 2)
Sensor Resolution	1280(H) * 800(V)
Rotate	360°
Pitch Angle	±60°
Skew Tolerance	±55°
Laser Safety Grade	Class II
Image Frame Rate	60fps
Code Support	1D： UPC/EAN, UPC/EAN , Code128, GS1-128, Code 39, Code 32, Code 93, Code11, Matrix 2 of 5, Interleaved 2 of 5, IATA 2 of 5, Industrial2 of 5,Codabar, MSI ,Code11 等。 2D： PDF417, MicroPDF417,Data Matrix, Maxicode, QR Code, MicroQR, Aztec 等。

Light Source System	White light, laser aiming
Minimum Printing Contrast	20%

Function 2	Camera

Front Camera	

Photo Function	Fixed Focus
Pixel	5MP

Rear Camera	

Photo Function	Auto-Focus
Pixel	13MP
Flashlight	Support

Function 3	RFID Read/Write(HF)
Standards Support	Support ISO15693, ISO14443A/B (Without Encryption Protocol), ISO14443A Tag with Encryption Protocol (Mifare One S50, S70 And Its Compatible Cards); Support NFC Protocol
Operating Frequency	HF Frequency Band 13.56MHz
Reading Range	Reading Distance more than 2.5cm for (ISO15693), more than 1.5cm for ISO14443A, and more than 0.5cm for ISO14443B (It varies by different tags).

Function 4	Security Module
Type	Micro PSAM*1

Function 5	GPS
Positioning system	GPS, Beidou, GLONASS (3 in 1)
Frequency	GPS: L1(1.575GHz), Beidou: B1(1.561GHz), GLONASS:L1(1.602GHZ)
Accuracy	5-10meter(OPEN SKY)

3. UTOUCH WIRELESS DATA COMMUNICATIONS

Function 1	WLAN WIFI
Protocol	IEEE 802.11a/b/g/n/ac (2.4G/5G dual-frequency WIFI)

Frequency Range	Depends on different countries (regions), 2.4GHz: 2.412GHz-2.472 GHz, 5GHz: 5.170GHz-5.825GHz
Function 2	**WWAN Full Network (7 7 modes 18 frequency)**
Frequency Band	GSM: Qual Band(850/900/1800/1900Mhz) TD-SCDMA: Band34,Band39 WCDMA: Band1, Band2, Band5, Band8 CDMA 1x /EVDO : BC0 TDD-LTE: Band38, Band39, Band40, Band41 FDD-LTE: Band1, Band3, Band5, Band7, Band8
Function 3	**WPAN Bluetooth**
Standard	Bluetooth 4.2(Support BLE)
Power	Class II

4. UTOUCH RFID FUNCTION PARAMETERS

Function	RFID Read/Write(UHF)
Read-Write Tag	Support ISO-18000-6C/EPCC1G2
Antenna Parameter	4dBi circular polarization, default as 920-925MHz
Frequency	840-960MHz (may be slightly different depending on the country or region), default as 902-928MHz.
Operation Mode	Work with frequency hopping spread spectrum (FHSS) or fixed frequency
Output Power	5~33dBm
Reading Distance	≥8m @impinj H47 (depending on the tag and environment)
Writing Distance	0-300cm (depending on the tag and environment)
Multi-Tab Reading	500 tags decoding within 20S with impinj H47 (actual speed subjects to the influence of surroundings)
Reading Rate	12ms/word (in average with every word as 32bits)
Writing Rate	60ms/word (in average with every word as 32bits)
Power Consumption	Less than 8W (average)

5. UTOUCH THE THIRD-PARTY APPLICATION SUPPORT

System Software	Android 9.0

System Programming Environment	Eclipse, Android Studio

6. UTOUCH PERRIPHERALS AND ACCESSORIES

Standard Accessories	Fast Charge Adapter ×1, Type-C Cable ×1
Optional Accessories	Penta Charing Dock, Screen Protector