UTouch RFID TERMINAL

PRODUCT SPECIFICATION V0.4

JIANGSU SEUIC TECHNOLOGY CO., LTD

1. UTOUCH PERFORMANCE CHARACTERISTICS

CPU	Cortex-A53 Octa core 1.8GHz
Operating System	Android 9.0
RAM/ROM	4GB+64GB
SIM Card Slot	Micro SIM card*1 + PSAM card*1
Expansion Slot	Micro SD Card, 128GB SDHC compatible
Interface/Communication	Industrial waterproof Type-C USB interface, support USB2.0 high speed, Support OTG
Keyboard	Volume +, Volume -, Power on/off button, 2 scan buttons, pistol grip scan button, and 1 customer key
Display	5.2 inch size Capacitive screen
	1920(H)×1080(W)
Power Supply	Device battery: removable 6400mAh rated capacity
	Bottom type-C USB interface, support QC 3.0, support intelligently identifying PC and charger.
	Support charging cradle for charging the pistol grip
Notification	Sound, vibration, LED indicator light
Audio	Built-in speaker of 1W, built-in dual microphone, the 3.5 mm stereo headset interface
Sensor	Acceleration sensor, optical and distance sensor, electronic compass and gyroscope
Dimension	156(H)×127.5(W)×79.5(T)mm
Weight(including standard battery)	480g (depends on different configurations)
Operating Temp	-20℃ to +50℃
Storage Temp	-40 ℃ to + 70 ℃
Humidity	5% to 95% RH non-condensing
Sealing Grade	IP65
Drop Specification	Multiple drops from 1.5m
Tumble Specification	1,000 1.64 ft./0.5 m tumbles (2,000 drops) resistance
ESD	±15kV Air discharge, ±8kV direct discharge

2. UTOUCH DATA COLLECTION 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	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 ligting and red laser aiming
Minimum printing contrast	40%
Function 2	**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	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, etc. 2D: PDF417, MicroPDF417,Data Matrix, Maxicode, QR Code, MicroQR, Aztec, etc.
Light source system	Warm light, laser aiming
Minimum printing contrast	20%
Function 3	**Camera**
Front Camera	
Photo Function	Fixed-focus

Pixel	5.0 mega pixel
Rear Camera	
Photo Function	Auto-focus
Pixel	8.0 mega pixel
Flashlight	Support double flashlights
Function 4	**RFID Read/Write(HF)**
Read-write tag	Support ISO15693, ISO14443A/B (without encryption protocol), ISO14443A encrypted tags (Mifare one S50, S70 and the compatible cards), support NFC protocol and Identification Cards.
Frequency	HF Frequency 13.56MHz
Reading distance	Typical value >2.5cm for ISO15693, typical value >1.5cm for ISO14443A, and typical value >0.5cm for ISO14443B (depending on the tags), support ID cards.
Function 5	**Safety Module**
Type	Micro PSAM card*1
Function 6	**GPS Location information collection**
Positioning system	GPS, Beidou, GLONASS(Three in one)
Frequency	GPS: L1(1.575GHz), Beidou: B1(1.561GHz), GLONASS: L1(1.602GHZ)
Accuracy	5-10meter (OPEN SKY)
Function 7	**Fingerprint(Option)**
Fingerprint	Pixel array：112*96 Collection area：5.6*4.8 mm Resolving power：508DPI Gray scale：8 位 Interface mode：SPI，Max 16MHz Built in clock：66MHz Direction of finger pressing：360 degrees Cold screen wake up：Support

3. UTOUCH WIRELESS DATA COMMUNICATIONS

Function 1	**WLAN WIFI**
Protocol	IEEE 802.11a/b/g/n/ac (2.4G/5G dual-band WIFI)
Frequency Range	Depending on the country (region),2.4GHz is 2.412GHz-2.472GHz; 5GHz

	is 5.170GHz-5.825GHz
Function 2	**WWAN All Network Server (7 mode 18 frequencies)**
Network	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 DATA COLLECTION

Function 1	**RFID Read/Write(UHF)**
Read-write tag	Support ISO-18000-6C/EPCC1G2
Antenna Parameter	4dBi circular polarization, default as 920-925MHz（compatible 3dBi antenna）
Frequency	840-960MHz (may be slightly different depending on the country or region), default 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	200 pieces tags/s (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	Quick charge adapter×1, Type C data cable×1
Optional Accessories	OTG cable, Hand strap, Single Slot Charging Dock, Four-slot Charging Dock, Four-slot Battery Charging Dock, Handle battery, Handle Satchel