



STAUTouch RFID TERMINAL

PRODUCT SPECIFICATION V0.2





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 lighting 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 3	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)

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	3dBi circular polarization, default as 920-925MHz
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	500 pieces tags decoding within 20 seconds (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	5-slot device charging cradle, screen protector

