

UTOUCH RFID HANDHELD TERMINAL

PRODUCT SPECIFICATION V0.1



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1. UTOUCH PERFORMANCE CHARACTERISTICS

| СРО | 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/Commun ication | 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) |
| | 6400mAh Detachable Li-ion battery |
| Power | 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°C to +50°C |
| Storage Temp | -40°C to +50°C (Battery Included) -40°C to +70°C (Battery Excluded) |
| Humidity | 5% to 95% RH Non-Condensing |
| Sealing | IP65 |
| Drop Specification | 1.5m |
| ESD | ±15kv Air Discharge, ±8kv Direct Discharge |

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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。 |

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| 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 |
| Туре | 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 And

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 | Penta Charing Dock, Screen Protector |
| Accessories | |