

# AUTOID UTouch 2-S

## Industrial UHF RFID Mobile Terminal

AUTOID UTouch 2-S is a new member in UTouch family, it brings the new features for short range UHF reading of 6m back toward object and 3m vertical which opens up a new world of user application in different scenario, pocket design to carry everywhere at any time. Also, many ergonomic designs are taken into consideration to tackle the day to day increasing challenges of heavy work burden, it have wavy groove and honeycomb texture design on the backside for non-slip design, and top NFC for convenient card reading. Support IP68 and 1.8 m drops to concrete, frontline workers can use worry-free.



## Product Features



### The transmission of data is real-time, fast, and stable with WIFI6

Transmission speed up to 1.2Gbps, 39% improved than WIFI5, network capacity utilization is increased by 2-3 times, and multiple applications data concurrent without queuing.

Enhanced roaming, performance improved by 70%, packet loss rate as low as 1-2%



### Versatile usage

Impinj E510, Support reading distance 0-6m back toward object or vertical 0-3m, Unique anti-collision algorithm, maximum group reading speed up to 700 times/sec, with 0.5 dBi high-sensitivity circularly polarized antenna, 1-30 dbm precise step control to achieve different user application



### Balanced weight with ultra rugged

Light and thin, only 14.3mm at the thinnest point, and weighs 325g, which meets the requirements of portability, IP68, 1.8m drops specification

# Specifications

| Physical Characteristics                     |   |
|--|---|
| <b>Dimensions</b>                            | 6.1 in. L x 3.0 in. W x 0.6 in. T(UHF antenna 1.1 in.)<br>156 mm L x 76 mm W x 14 mm T(UHF antenna 28.2 mm)             |
| <b>Weight</b>                                | 11.5 oz./325 g with battery   |
| <b>Display</b>                               | 5.5" display with capacitive touch,1440(H)×720(W)   |
| <b>Power</b>                                 | 5000mAh<br>Type C USB interface at the bottom, Supporting QC3.0 fast charging, intelligently identifying PC and charger |
| <b>SIM Card Slot</b>                         | SIM+TF  |
| <b>Expansion Slot</b>                        | Micro SD Card, compatible up to 256GB   |
| <b>Interface/Communication</b>               | Waterproof Type C USB interface, support USB2.0 HighSpeed, support OTG.   |
| <b>Notifications</b>                         | Sound, vibration, LED indicator light   |
| <b>Buttons</b>                               | Power + volume (+, -) + scan key*2 + custom key   |
| <b>Voice and Audio</b>                       | Built-in single speaker, built-in dual microphones (with noise cancellation)  |
| Performance Characteristics                  |   |
| <b>CPU</b>                                   | Octa core 2.0GHz  |
| <b>Operating System</b>                      | Android 11  |
| <b>Memory</b>                                | 4GB RAM/64 GB Flash memory (optional 6GB+128GB)   |
| User Environment                             |   |
| <b>Operating Temp.</b>                       | -4°F /-20°C to +122°F /+50°C  |
| <b>Storage Temp.</b>                         | -40°F /-40°C to +140°F /+60°C (include battery)<br>-40°F /-40°C to +158°F /+70°C (no battery)                           |
| <b>Humidity</b>                              | 5% to 95% RH non-condensing state   |
| <b>Drop Spec.</b>                            | Multiple drops from 5.9 ft./1.8 m   |
| <b>Sealing</b>                               | IP68  |
| <b>Electrostatic Discharge (ESD)</b>         | ±15kV Air discharge, ±8kV direct discharge  |
| <b>Sensor</b>                                | G-sensor, light sensor, distance sensor, gyroscope  |
| Data Capture                                 |   |
| <b>Scanning</b>                              |   |
| <b>Scan Engine</b>                           | Middle range 2D imager scan engine  |
| <b>Camera</b>                                |   |
| <b>Front camera</b>                          | Fixed focus. 5MP  |
| <b>Rear camera</b>                           | Auto-focus, 13 MP, Support double flashlights, PDAF phase detection auto focus  |
| RFID Read/Write(NFC)                         |   |
| <b>Read-write tag</b>                        | Support ISO15693, ISO14443A/B (without encryption protocol), and support NFC protocol                                   |
| <b>Frequency</b>                             | HF Frequency 13.56MHz   |
| <b>Reading distance</b>                      | ISO15693 typical value >2cm, ISO14443A typical value >1cm, ISO14443B typical value >0.5cm (label related)               |
| RFID Read/Write(UHF)- Standard Configuration |   |

| <b>Read-write tag</b>                 | Comply with ISO-18000-6C/EPCC1G2  |
|---------------------------------------|---|
| <b>Antenna Parameter</b>              | 0.5dBiC circular polarized, supporting 902-928MHz   |
| <b>Frequency</b>                      | 860-930MHz (customized according to national and regional regulations), default 902-928MHz  |
| <b>Operation Mode</b>                 | Work in wide spectrum frequency hopping (FHSS) or fixed frequency transmission mode   |
| <b>Output power</b>                   | 1~30dBm   |
| <b>Reading distance</b>               | Back Scan≥6m, Front Scan≥3m @9662 white card (actual distance is affected by the label and environment)   |
| <b>Writing distance</b>               | 0 ~ 2m@9662 white card (actual distance is affected by the label and environment)   |
| <b>Group reading speed</b>            | The maximum reading speed reaches 700 tags/second @impinj H47 (actual is affected by the label and environment)   |
| <b>Reading rate</b>                   | Average reading time per word (32bits) 12ms   |
| <b>Writing rate</b>                   | Average writing time per word (32 bits) is 60ms   |
| <b>Power consumption</b>              | Average power < 4.5W  |
| GPS Location information collection   |   |
| <b>Positioning system</b>             | GPS+GLONASS+Beidou, support AGPS  |
| <b>Frequency</b>                      | GPS: L1/L5; Beidou: B1; GLONASS: L1/L5  |
| <b>Accuracy</b>                       | 5-10meter (OPEN SKY)  |
| Wireless Connectivity                 |   |
| WLAN                                  |   |
| <b>Protocol</b>                       | IEEE 802.11a/b/g/n/ac/ax 2*2 MIMO (2.4G/5G dual-band WIFI)  |
| <b>Frequency Range</b>                | Depending on the country (region), 2.412GHz - 2.472GHz for 2.4GHz; 5.180GHz - 5.825GHz for 5GHz   |
| <b>Security</b>                       | Supporting WPA2-Personal, WPA2-Enterprise, EAP-TLS, EAP-TTLS/MSCHAPv2, PEAPv0/EAP-MSCHAPv2, PEAPv1/EAP-GTC, EAP-SIM, EAP-AKA, EAP-AKA Prime   |
| WWAN                                  |   |
| <b>Network</b>                        | GSM: Qual Band (850/900/1800/1900MHz)<br>WCDMA: Band2, Band4, Band5, Band8<br>TDD-LTE: Band38, Band39, Band41<br>FDD-LTE: Band2, Band4, Band 5, Band7, Band8, Band12, Band 17, Band13, Band25, Band26, Band66, Band71 |
| Accessories                           |   |
| <b>Standard</b>                       | Power adapter×1, Type C data communication cable×1  |
| <b>Additional</b>                     | Single device charging cradle, Quad battery charger, OTG cable, hand strap  |
| THIRD PARTY APPLICATION SUPPORT       |   |
| <b>System Software</b>                | Android 11.0  |
| <b>System programming environment</b> | Eclipse, Android Studio   |

**PRODUCT SPEC SHEET**

AUTOID UTOUCH 2-S UHF RFID HANDHELD READER

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