

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 Ready

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

Read-write tag	Comply with ISO-18000-6C/EPCC1G2
Antenna Parameter	0.5dBiC circular polarized, supporting 902-928MHz
Frequency	840-960MHz (customized according to national and regional regulations), default 902-928MHz
Operation Mode	Work in wide spectrum frequency hopping (FHSS) or fixed frequency transmission mode
Output power	1~30dBm
Reading distance	Back Scan≥6m, Front Scan≥3m @9662 white card (actual distance is affected by the label and environment)
Writing distance	0 ~ 2m@9662 white card (actual distance is affected by the label and environment)
Group reading speed	The maximum reading speed reaches 700 tags/second @impinj H47 (actual is affected by the label and environment)
Reading rate	Average reading time per word (32bits) 12ms
Writing rate	Average writing time per word (32 bits) is 60ms
Power consumption	Average power < 4.5W
GPS Location information collection	
Positioning system	GPS+GLONASS+Beidou, support AGPS
Frequency	GPS: L1; Beidou: B1; GLONASS: L1
Accuracy	5-10meter (OPEN SKY)
Wireless Connectivity	
WLAN	
Protocol	IEEE 802.11a/b/g/n/ac/ax-Ready(2.4G/5G dual-band WIFI)
Frequency Range	Depending on the country (region), 2.412GHz - 2.472GHz for 2.4GHz; 5.180GHz - 5.825GHz for 5GHz
Security	Supporting WPA2-Personal, WPA2-Enterprise, EAP-TLS, EAP-TTLS/MSCHAPv2, PEAPv0/EAP-MSCHAPv2, PEAPv1/EAP-GTC, EAP-SIM, EAP-AKA, EAP-AKA Prime
WWAN	
Network	GSM: Qual Band (850/900/1800/1900MHz) WCDMA: Band2, Band4, Band5, Band8 TDD-LTE: Band38, Band39, Band41 FDD-LTE: Band2, Band4, Band 5, Band7, Band8, Band12, Band 17, Band13, Band25, Band26, Band66
Accessories	
Standard	Power adapter×1, Type C data communication cable×1
Additional	Single device charging cradle, Quad battery charger, OTG cable, hand strap
THIRD PARTY APPLICATION SUPPORT	
System Software	Android 14.0
System programming environment	Eclipse, Android Studio

PRODUCT SPEC SHEET

AUTOID UTOUCH 2-S UHF RFID HANDHELD READER
