




# AUTOID UTouch 2

## Industrial UHF RFID Mobile Terminal

AUTOID UTouch 2 is a new generation UHF RFID device escorted with overall improvement compared with predecessor, it can read utmost 1300pcs tags/s, different reading scenario can be changed at one tap, support multiple special tags and with upgraded algorithm to find the specific item precisely at your needs. With Octa core processor and wifi6 make it works like a duck in water in complexity environment, the 11700mAh dual battery will be a strong support for continuous work, this device also can resistant unparalleled 2.0m drops to concrete, that's just a game changer in market



## 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%
-  **Dual battery, support long shift work**  
Equipped with 6700mAh pistol battery and 5000mAh device battery, support continuous scanning at max power for more than 5 hours, and support swap pistol battery without affecting device running.
-  **Balanced weight with ultra rugged**  
Just 630g weight, and it's balanced design makes it not flip over head when holding in your hand, it's humanize design.  
This device withstand 2m drops to six corners 40 times and 0.5m 1000 rolls, it's IP67 protection.

# Specifications

Physical Characteristics	
<b>Dimensions</b>	6.7 in. L x 3.1 in. W x 5.2 in. T (0.6 in.) 170 mm L x 80 mm W x 132.7 mm T(16.4mm)
<b>Weight</b>	22.2 oz./630 g with battery
<b>Display</b>	5.5" display with capacitive touch,1440(H)×720(W)
<b>Power</b>	≥11700mAh (Main unit 5000mAh + Handle 6700mAh replaceable) Bottom Type C USB port, support QC3.0 fast charging, intelligent recognition of 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 (+, -) + UHF + SCAN + Custom + On/Off button
<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 14
<b>Memory</b>	4GB RAM/64 GB Flash memory (optional 8GB+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) -40°F /-40°C to +158°F /+70°C (no battery)
<b>Humidity</b>	5% to 95%, non-condensing
<b>Drop Spec.</b>	Multiple drops from 6.6 ft./2.0 m
<b>Sealing</b>	IP67
<b>Electrostatic Discharge (ESD)</b>	±15kV Air discharge, ±8kV direct discharge
<b>Sensor</b>	G-sensor, light sensor, distance sensor, electronic compass, gyroscope
Data Capture	
<b>Scanning</b>	
<b>Scan Engine</b>	Middle range 2D imager scan engine
Camera	
<b>Front camera</b>	Fixed focus. 5MP
<b>Rear camera</b>	Auto-focus, 13 MP, Support double flashlights, PDAF phase focusing
RFID Read/Write(NFC) (Special Order Option Only)	
<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 >5cm, ISO14443A typical value >4cm, ISO14443B typical value >1.5cm (label related)
RFID Read/Write(UHF)- Standard Configuration	
<b>Read-write tag</b>	Conforms to ISO-18000-6C/EPCC1G2

<b>Antenna Parameter</b>	5dBi circular polarization, default 902-928MHz
<b>Frequency</b>	840-960 MHz (customized according to country's regional regulations), default 902-928 MHz
<b>Operation Mode</b>	Operates as a frequency hopping spread spectrum (FHSS) or fixed frequency transmission mode
<b>Output power</b>	1~33dBm
<b>Reading distance</b>	≥10m @impinj H47 (practical distance subject to label and environment)
<b>Writing distance</b>	0-6m@9662 white card (practical distance subject to label and environment)
<b>Group reading speed</b>	Achieve 1300 frames/sec @impinj H47 (practical distance subject to label and environment)
<b>Reading rate</b>	12 ms per separate character (32bits) on average
<b>Writing rate</b>	60 ms per separate character (32bits) on average
<b>Power consumption</b>	less than 8W (average)
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)
Fingerprint (Option)	
<b>Fingerprint</b>	Pixel array: 112*96 Collection area: 5.6*4.8 mm Resolving power: 508DPI Gray scale: 8 bits Interface mode: SPI, Max 16MHz Built in clock: 66MHz Direction of finger pressing: 360 degrees Cold screen wake up: Support
Wireless Connectivity	
WLAN	
<b>Protocol</b>	IEEE 802.11a/b/g/n/ac/ax
<b>Frequency Range</b>	Depending on the country (region),2.4GHz is 2.412GHz-2.472GHz; 5GHz is 5.170GHz-5.825GHz
<b>Security</b>	Support WPA2 -Personal, WPA2 -Enterprise, EAP-TLS, EAP-TTLS/MSCHAPv2, PEAPv0/EAP-MSCHAPv2, PEAPv1/EAP-GTC, EAP-SIM, EAP-AKA, and EAP-AKA Prime
WWAN	
<b>Network</b>	North American: 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 ,Band71  Eurasian: GSM: Qual Band(850/900/1800/1900Mhz) WCDMA: Band1、Band2、Band5、Band8

**PRODUCT SPEC SHEET**

**AUTOID UTOUCH2 UHF RFID HANDHELD READER**

	CDMA :BC0 EVDO TD-SCDMA B34、B39 LTE: Band1、Band3、Band5、Band7、 Band8、Band20、Band28、Band34、Band38、 Band39、Band40、Band41 CA: B1+B3、B39+B41		communication cable×1
		<b>Additional</b>	Single device charging cradle, quad battery charger, grip battery, and hand strap
<b>THIRD PARTY APPLICATION SUPPORT</b>			
		<b>System Software</b>	Android 14.0
		<b>System programming environment</b>	Eclipse, Android Studio
<b>Accessories</b>			
<b>Standard</b>	Power adapter×1, Type C data		