AUTOID UTouch 2-20

Industrial UHF RFID Mobile Terminal

AUTOID UTOUCH 2-20 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-ready 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-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%

Dual battery, support long shift work

Equipped with 6700mAh pistol battery and 5000mAh device battery, support continuous scanning at max power for more than 5hours, and support swap pistol battery without affecting device running.

Balanced weight with ultra rugged

Just 640g 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	
Dimensions	6.26 (H)*3.07 (W)*5.24 (T) inch 159 (H)*78 (W)*133 (T) mm
Weight	22.58 oz./640 g with battery
Display	5.5" display with capacitive touch,1440(H)×720(W)
Power	≧11700mAh (Main unit 5000mAH + Handle 6700mAh replaceable) Bottom Type C USB port, support QC3.0 fast charging, intelligent recognition of 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 (+, -) + UHF + SCAN + Custom + On/Off button
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	6 GB RAM/64 GB Flash memory (optional 8GB+128GB)

User Environment	
Operating Temp.	-4℉ /-20°C to +122℉ /+50°C
Storage Temp.	-40℉ /-40°C to +140℉ /+60°C（include battery） -40℉ /-40°C to +158℉ /+70°C（no battery）
Humidity	5% to 95%, non-condensing
Drop Spec.	Multiple drops from 6.6 ft./2.0 m
Sealing	IP67
Electrostatic Discharge (ESD)	±15kV Air discharge, ±8kV direct discharge
Sensor	G-sensor, light sensor, distance sensor, electronic compass, 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 focusing
RFID Read/Write(NFC) (Special Order Option Only)	
Read-write tag	Support ISO15693, ISO14443A/B (without encryption protocol), and support NFC protocol
Frequency	HF Frequency 13.56MHz
Reading distance	ISO15693 typical value >5cm, ISO14443A typical value >4cm, ISO14443B typical value >1.5cm (label related)
RFID Read/Write(UHF)- Standard Configuration	
Read-write tag	Complies with ISO-18000-6C/EPC C1 Gen2/EPC C1 Gen2X
Antenna Parameter	5dBi circular polarization, default 902-928MHz
Frequency	840-960 MHz (customized according to country's regional regulations), default 902-928 MHz
Operation Mode	Operates as a frequency hopping spread spectrum (FHSS) or fixed frequency transmission mode
Output power	1~33dBm
Reading distance	≥15m @White Card-U9 (Effective distance affected by tag and environment) ≥20m @Inlay-M830 70*14 (Effective distance affected by tag and environment)
Writing distance	0-7m @ White Card-U9 (Actual range affected by tags and environment)
Group reading speed	Up to 1300 times per second (actual range depends on the tag and environment)
Reading rate	12 ms per separate character (32bits) on average
Writing rate	60 ms per separate character (32bits) on average
Power consumption	less than 8W (average)
GPS Location information collection	
Positioning system	GPS+GLONASS+Beidou, support AGPS
Frequency	GPS: L1/L5; Beidou: B1; GLONASS: L1/L5
Accuracy	5-10meter (OPEN SKY)

Wireless Connectivity	
WLAN	
Protocol	IEEE 802.11 ac/a/b/g/n/ax ready (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
Security	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	
Network	North American: GSM: Qual Band (850/900/1800/1900 MHz) WCDMA: Band 2, Band 4, Band 5, Band 8 TDD-LTE: Band 38, Band 39, Band 41 (200 MHz) FDD-LTE: Band 2, Band 4, Band 5, Band 7, Band 8, Band 12, Band 17, Band 13, Band 25, Band 26, Band 66 CA DL: 2+ 4 25+66 39+41

	Eurasian: GSM: 850/900/1800/1900 WCDMA: B1/B5/B8 TDD-LTE: B34/B38/B39/B40/B41 (200MHz) FDD-LTE: B1/B3/B5/B7/B8/B20/B28 CDMA/CDMA-EVDO: BC0 Supports intra-band carrier aggregation; inter-band carrier aggregation: downlink B1 B3, downlink B39 B41; VoLTE (PA power adds APT function)

Accessories	
Standard	Power adapter×1, Type-C data cable×1
Additional	Stand-alone charger for the whole unit, four-bay charger for batteries, handle battery;

THIRD PARTY APPLICATION SUPPORT	
System Software	Android 14.0
System programming environment	Android Studio