AUTOID UTouch 2-30(1000/3)

Industrial UHF RFID Mobile Terminal

AUTOID UTouch 2-30(100/3) is an ultra-long-range UHF RFID device with remarkable improvements over its previous generation. It achieves a maximum reading distance of 30 meters and can complete reading up to 1,000 tags in merely 3 seconds. It addresses the challenges of RFID tag reading in ultra-long-range scenarios, as well as the identification difficulties of dense tags and miniature tags.Equipped with an industry-first automatic multi-polarization identification technology, its recognition efficiency is increased by 40% compared with conventional circularly polarized devices. Boasting comprehensive functions, it meets the data collection requirements of diverse scenarios.



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%

Balanced weight with ultra rugged

Just 715g weight, and it's balanced design makes it not flip over head when holding in your hand, it's humanize design.This device withstand 1.5m drops to six corners 40 times it's IP67 protection.

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.

Specifications

Physical Characteristics	
Dimensions	6.26 (H)*3.07 (W)*5.24 (T) inch 159(H)*78(W)*133(T)mm
Weight	25.22 oz./715 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+Handle button
Voice and Audio	Built-in single speaker, built-in dual microphones (with noise cancellation)
Performance Characteristics	
CPU	Eight-core 2.0 GHz
Operating System	Android 14
Memory	6GB 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 4.9 ft./1.5 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	Conforms to ISO-18000-6C/EPC C1 Gen2/EPC C1 Gen2X
Antenna Parameter	Horizontal polarization, vertical polarization and circular polarization, support software settings
Frequency	China: 920-925MHz, United States: 902-928MHz, European Union: 865-868MHz (lower band) and 915-921MHz (Upper band), other regional frequency bands can be supported
Operation Mode	Operates as a frequency hopping spread spectrum (FHSS) or fixed frequency transmission mode
Output power	1~33dBm
Reading distance	≥18m @ U9 white card (practical distance subject to label and environment) ≥30m @ Inlay-M830 70*14 (practical distance subject to label and environment)
Writing distance	0-10m@U9 white card (practical distance subject to label and environment)
Group reading speed	Achieve 1300 frames/sec @impinj H47 (practical distance subject to label 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; Beidou: B1; GLONASS: L1/L5
Accuracy	5-10meter
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 5.180GHz-5.825GHz
WWAN	
	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 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
Accessories	
Standard	Power adapter×1, Type-C data cable×1
Additional	Integral single cradle charger, battery quad cradle charger, grip battery, and hand strap;
THIRD PARTY APPLICATION SUPPORT	
System Software	Android 14.0
System programming environment	Android Studio