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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%

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.

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	6.7 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)
Weight	22.2 oz./630 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 11
Memory	4GB 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	Conforms to ISO-18000-6C/EPCC1G2

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	≧10m @impinj H47 (practical distance subject to label and environment)
Writing distance	0-6m@9662 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/L5; Beidou: B1; GLONASS: L1/L5
Accuracy	5-10meter (OPEN SKY)

Fingerprint (Option)	
Fingerprint	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	
Protocol	IEEE 802.11a/b/g/n/ac/ax
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(850/900/1800/1900Mhz) 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		Additional	communication cable×1
	TD-SCDMA B34、B39			Single device charging cradle, quad battery charger, grip battery, and hand strap
	LTE: Band1、Band3、Band5、Band7、Band8、Band20、Band28、Band34、Band38、Band39、Band40、Band41		**THIRD PARTY APPLICATION SUPPORT**	
	CA: B1+B3、B39+B41		**System Software**	Android 11.0
Accessories			**System programming environment**	Eclipse, Android Studio
Standard	Power adapter×1, Type C data			