

AT909

Powerful All-In-One UHF RFID Reader

High performance Mobile Computer

- Android 13
- Octa-Core 2.0GHz
- 5.5 Inch HD Display
- 4G LTE, WLAN, BLE V4.2, GPS
- 1D & 2D Barcode Scanning
- Dual Camera (5MP / 13MP)
- 7,200 mAh Lithium-Ion Battery
- IP65 / Drop 1.5m

Excellent RFID Reading Performance

- UHF RFID EPC GEN2, ISO / IEC 18000-6C
- 10m Reading range
- Circularly Polarized Antenna (4.5 dBi)



**Multi
Functional**



All-In-One



Powerful



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AT909

Specification

PERFORMANCE	
Processor	Cortex A73, 2.0 GHz, Octa-Core
Memory	RAM 4GB / ROM 64 GB
Operating System	Android 13
PHYSICAL CHARACTERISTICS	
Dimensions (L x W x H)	170 x 80 x 145 mm
Weight	600g (with Battery)
Power	7,200 mAh / Lithium-Ion Battery Adaptor : DC 5V / 2A
Display	5.5" IPS HD (720 x 1440)
USB Interface	1 USB Poart / Type-C
Notification	LED Indicator, Speaker, Vibrator
Slot	2 x Sim Card Slot
	2 x PSAM Card Slot
	1 x TF Memory Slot (Support up to 256GB)
DATA COLLECTION	
UHF RFID	Protocol EPC GEN2, ISO/IEC 18000-6C
	Reading Range ~ 10 m (Depending on environment and tag type)
	Writing Range ~ 0.5m (Depending on environment and tag type)
	RF Output 1W / 30 dBm (Max)
	Support US / FCC : 902 ~ 928 MHz
	Frequency EU / CE : 865 ~ 868 MHz (Optional)
	Antenna Circulary Polarized Antenna / 4.5 dBi
	HF RFID Frequency : 13.56MHz
	Protocol : ISO 14443A & 15693, NFC-IP1, NFC-IP2
	R/W Range : 2 ~ 5 cm
Barcode	2D Engine (Support to read 1D & 2D Barcode)
Camera	Front 5M Pixel
	Rear 13M Pixel

Accessories



AC Adaptor
5V / 2A



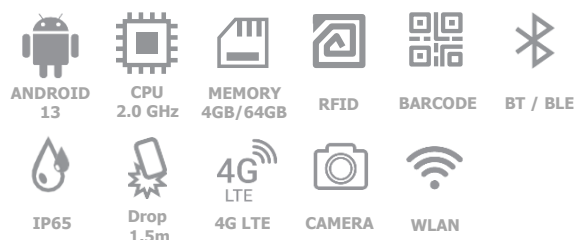
USB Cable



Hand Strap

WIRELESS COMMUNICATION	
Bluetooth	BT V2.1+EDR / BLE V5.0
GPS	Embedded A-GPS, Tolerance ±5m
WLAN	802.11 a/b/g/n/ac (2.4GHz / 5GHz)
WWAN	2G : GSM / GPRS / EDGE (850 / 900 / 1800 / 1900 MHz)
	3G : WCDMA (850 / 900 / 1900 / 2100 MHz)
	4G : TD-LTE (Band 38 / 39 / 40 / 41)
	FDD-LTE (Band 1 / 2 / 3 / 4 / 5 / 7 / 8 / 12 / 17 / 20)
USER ENVIRONMENT	
Operation Temperature	-20°C to 50°C
Storage Temperature	-20°C to 70°C
Humidity	5 ~ 95% RH (non-condensing)
Drop Secification	1.5 m / 5 ft
Sealing	IP65

** All Features and specifications described are subject to change without notice.*



Certification



FCC CAUTION

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction

Specific Absorption Rate (SAR) information:

This product meets the government's requirements for exposure to radio waves. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons regardless of age or health.

FCC RF Exposure Information and Statement The SAR limit of USA (FCC) is 1.6 W/kg averaged over one gram of tissue.

Device type: AT909 (FCC ID: VUJ-AT909) was also tested against these values. The highest reported SAR values for head, body-worn, Hotspot accessory are 0.33 W/kg, 0.55 W/kg, 1.14 W/kg respectively. The device tested typical body wear operations with the back of the product 10mm from the body. To meet FCC RF exposure requirements, use accessories that maintain a separation distance of 10mm between the user's body and the back of the product. The use of belt clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.

The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

CE CAUTION

Manufacturer's Name: ATID CO., LTD.

Product name: Portable reader

Trade Mark: N/A

Model number: AT909

Operating Temperature: 0° C to 35° C

This device in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. All essential radio test suites have been carried out.

The construction of the radio equipment of this product complies with the applicable European requirements for the use of the radio spectrum.

The RF frequencies can be used in Europe without restriction.

This product is intended for sale and application in a business environment.

Function	Operation Frequency	Modulation	Max RF Output power
2G	E-GSM900: Tx: 880-915MHz, Rx: 925-960MHz DCS1800: Tx: 1710-1785MHz, Rx: 1805-1880MHz	GPRS: GMSK EGPRS : 8PSK	31.85dBm
3G	WCDMA Band I: Tx: 1920-1980MHz, Rx: 2110-2170MHz WCDMA Band VIII: Tx: 880-915 MHz, Rx: 925-960 MHz	QPSK	23.30dBm
4G	LTE Band1: Tx:1920-1980 MHz, Rx: 2110-2170 MHz LTE Band3: Tx: 1710-1785MHz, Rx: 1805-1880MHz LTE Band7: Tx: 2500-2570MHz, Rx: 2620-2690MHz LTE Band8: Tx: 880-915MHz, Rx: 925-960MHz LTE Band20: Tx: 832-862MHz, Rx: 791-821MHz LTE band38: Tx: 2570-2620MHz, Rx: 2570-2620MHz LTE band40: Tx: 2300-2400MHz, Rx: 2300-2400MHz	QPSK, 16QAM	24.12dBm
2.4G WIFI	WIFI: IEEE 802.11b/g/n HT20: 2412-2472MHz IEEE 802.11n HT40: 2422-2462MHz	DSSS, OFDM	15.36dBm
5GWIFI	IEEE 802.11a/n/ac(20M): 5150MHz ~5250MHz/ 4 channel IEEE 802.11n/ac(40M): 5150MHz ~5250MHz/ 2 channel IEEE 802.11ac(80M): 5150MHz ~5250MHz/ 1 channel IEEE 802.11a/n/ac(20M): 5250MHz ~5350 MHz/ 4 channel IEEE 802.11n/ac(40M): 5250MHz ~5350 MHz/ 2 channel IEEE 802.11ac(80M): 5250MHz ~5350 MHz/ 1 channel IEEE 802.11a/n/ac(20M): 5725MHz ~5850MHz/ 5 channel IEEE 802.11n/ac(40M): 5725MHz ~5850MHz/ 2 channel IEEE 802.11ac(80M): 5725MHz ~5850MHz/ 1 channel	OFDM	14.62dBm
BT	EDR: 2402-2480MHz BLE: 2402-2480MHz	EDR: GFSK, π/4 DQPSK, 8DPSK BLE:GFSK	7.99dBm
RFID	865.7-867.5MHz	ASK	29.973dBm
NFC	13.56MHz	ASK	28.28 dBuA/m at 3m

The use of the 5150 – 5350 MHz band is restricted to indoor use only. This restriction will be applied in all member states.

Restrictions in the 5 GHz band:

According to Article 10 (10) of Directive 2014/53/EU, the packaging shows that this radio equipment will be subject to some restrictions when placed on the market in Belgium (BE). Bulgaria (BG), the Czech Republic (CZ),Denmark (DK), Germany (DE), Estonia (EE), Ireland (IE), Greece (EL), Spain(ES), France (FR), Croatia (HR), Italy (IT), Cyprus (CY), Latvia (LV),

Lithuania(LT), Luxembourg (LU), Hungary (HU), Malta (MT), Netherlands (NL) Austria(AT) Poland (PL), Portugal (PT), Romania (RO), Slovenia (SI) Slovakia (SK),Finland (FI). Sweden (SE) Turkey (TR) Norway(NO), Switzerland (CH). Iceland (IS), and Liechtenstein (LI).

The host manufacturer has the responsibility that the host device should be compliance with all essential requirement of RED.

The simplified EU declaration of conformity referred to in Article 10(10) shall be provided as follows: Hereby. Advanced Technologies SRL declares that the radio equipment type Tablet PC is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.nst-it.com.

SAR

After laboratory measurement. The highest reported SAR values for head, body-worn accessory are 0.50 W/kg, 1.06 W/kg respectively.

The device complies with RF specifications when the device used at 5mm from your body.