



UHF RFID Reader



Android



4G



WiFi



Bluetooth



UHF



1D Barcode



2D Barcode



IRIS



NFC



Camera



GPS

This device is an Android rugged mobile computer. It features powerful processor, 8000mAh battery and superb UHF RFID capability. It can be equipped with R2000 linearly or circularly polarized antenna. That it can read tags in bulk from long distance enables it to be deployed in asset management, retail, warehousing, fleet management and etc.



Specification

Performance	
Quad-core	
CPU	Cortex-A53 Quad-core 1.45GHz
RAM+ROM	2GB+16GB
Expansion	Supports up to 128 GB Micro SD card
Operating System	Android 6.0
Octa-core	
CPU	Cortex-A53 Octa-core 2.5GHz
RAM+ROM	3GB+32GB
Expansion	Supports up to 128 GB Micro SD card
Operating System	Android 8.1
Communication	
Quad-core	
WLAN	IEEE802.11 a/b/g/n, 2.4G/5G dual-band, internal antenna
WWAN (China)	2G: 900/1800MHz
	3G: 900/1900/2000/2100MHz
WWAN(Europe)	4G: B1, B3, B5, B38, B39, B40, B41
	2G: 850/900/1800/1900MHz
WWAN(America)	3G: 850/900/1900/2100MHz
	4G: B1, B3, B5, B7, B8, B20, B40
WWAN(America)	2G: 850/900/1800/1900MHz
	3G: 850/900/1700/1900MHz
WWAN(America)	4G: B2, B4, B7, B12, B17
	2G: 850/900/1800/1900MHz
WWAN (Others)	Depending on the country's ISP
Bluetooth	Bluetooth 4.0, BLE
GNSS	GPS/AGPS, GLONASS, BeiDou, internal antenna
Octa-core	
WLAN	IEEE802.11 a/b/g/n/ac, 2.4G/5G dual-band, internal antenna
WWAN (China)	2G: 900/1800MHz
	3G: WCDMA: B1,B8
WWAN (China)	CDMA2000 EVDO: BC0
	TD-SCDMA: B34,B39
WWAN (Overseas)	4G: B1,B3,B5,B8,B34,B38,B39,B40,B41
	2G: 850/900/1800/1900MHz
WWAN (Overseas)	3G: B1,B2,B4,B5,B8
	4G: B1,B2,B3,B4,B5,B7,B8,B12,B17,B20,B25,B40,B66
WWAN (Others)	Depending on the country's ISP
Bluetooth	Bluetooth v2.1+EDR,3.0+HS,v4.1+HS
GNSS	GPS/AGPS, GLONASS, BeiDou; internal antenna
Physical Characteristics	
Dimensions	164.2 x 80.0 x 24.3mm / 6.46 x 3.15 x 0.96in
Weight	654g / 23.07oz
Display	5.2" IPS FHD 1920x1080
Touch Panel	Corning Gorilla Glass, multi-touch panel, gloves and wet hands supported
Power	Li-ion, rechargeable, 8000mAh
	Standby: over 500 hours
	Continuous use: over 12 hours (depending on user environment)
	Charging time: 3-4 hours (with standard adaptor and USB cable)
Expansion Slot	1 slot for SIM card, 1 slot for SIM or TF card
Interfaces	USB 2.0 Type-C, OTG, Octa-core version supports TypeC headphones
Audio	Speaker, 2 microphones
Keypad	4 front keys, 1 power key, 2 scan keys, 1 multifunctional key

Sensors	Gravity sensor, light sensor, proximity sensor
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User Environment

Operating Temp.	-4°F to 122°F / -20°C to 50°C
Storage Temp.	-40°F to 158°F / -40°C to 70°C
Humidity	5%RH - 95%RH non condensing
Drop Specification	Multiple 1.5m/4.9ft drops (at least 20 times) to the concrete across the operating temperature range
Tumble Specification	1000 x 0.5m/1.6ft falls at room temperature
Sealing	Host IP65 per IEC sealing specifications
ESD	±15KV air discharge, ±6KV conductive discharge

Developing Environment

SDK	Software Development Kit
Language	Java
Tool	Eclipse / Android Studio

Data Collection

Camera

Camera	13MP Autofocus with flash
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RFID (Optional)

UHF

Engine	Based on Impinj Indy R2000
Frequency	865MHz-868MHz / 920-925MHz / 902-928MHz
Protocol	EPC C1 GEN2 / ISO18000-6C
Antenna	Linear polarization(1.8dBi); circular polarization (4dBi)
Power	1W (30dBm, +5dBm to +30dBm adjustable)
	2W Optional (33dBm, for LatI America, etc.)
R/W range	>25m (circular polarization, indoors); >15m (circular polarization, open outdoors, Impinj MR6 tag); >21m (linear polarization, indoors); >7m (linear polarization, open outdoors)
	>200 tags/s (circular polarization)

* Ranges and rates depend on tags and environment

Barcode Scanning (Optional)

1D Linear Scanner (Quad-core)	Zebra SE965 / Honeywell N4313
1D Symbologies	UPC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS, etc.
2D Imager Scanner (Quad-core)	Zebra: SE4710 / SE4750 / SE4750MR; Honeywell: N6603
2D Imager Scanner (Octa-core)	Zebra SE4750/ SE4750MR
2D Symbologies	PDF417, MicroPDF417, Composite, RSS, TLC-39, Datamatrix, QR code, Micro QR code, Aztec, MaxiCode; Postal Codes: US PostNet, US Planet, UK Postal, Australian Postal, Japan Postal, Dutch Postal (KIX), etc.

Iris (optional)

Rate	<150ms
Range	20-40cm
FAR	1/10000000
Protocol	ISO/IEC 19794-6, GB/T 20979-2007

NFC (optional)

Frequency	13.56MHz
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Accessories

Standard	AC Adaptor, USB Cable, etc.
Optional	Cradle, Holster , etc.

* For detailed specification, please check Accessory Guide.