

RFP820

Android Long Range Handheld Reader

The RFP820 is a powerful Android handheld reader built with Impinj R2000 chipset, delivering long range UHF performance, rugged durability and advanced data capture capabilities for industrial applications.

- **Excellent Performance**
Impinj R2000 chip with UHF reading distance more than 12 meters.
- **Powerful Platform**
Android 8.1 OS, MTK MT6765 Octa-core 2.3GHz.
- **Humanist Design**
Hand grip ergonomic design, light weight and easy to use.
- **Industrial Rugged**
IP65 rugged, 1.2M drop to concrete, built for severe environments.



MULTI-ANGLE VIEWS



SPECIFICATIONS

Performance Characteristics	
CPU	MTK MT6765 Octa-core (4x453 2.3GHz, 4x453 1.8GHz)
Operating System	Android 8.1 (GMS Certified)
Memory	32 GB ROM + 4 GB RAM
Display	5.65" FHD+ 1080x2160
Standard I/O Port	USB Type C OTG
Expansion Slot	1 Micro SD Slot, 2 SIM Slots
Notification Indicator	LED, Speaker

Network Characteristics	
WIFI	802.11a/ac/b/g/n (2.4G+5G)
WWAN (Overseas)	GSM (B2/B3/B5/B8) WCDMA: B1/B2/B5/B6/B8 TDD-LTE: B38/B40/B41(100M) FDD-LTE: B1/B3/B5/B7/B8/B18/B19/B20/B26
GPS	GPS + AGPS with internal Antenna
Bluetooth	5.0

UHF RFID	
Protocol	ISO/IEC 18000-6B, ISO/IEC 18000-6C / EPC C1G2
Reading Distance	0 ~ ≥12m (According to Tag & Environment)
Antenna	Circular 4dBi
RF Output	0-33dBm adjustable
Frequency	USA:902-928MHz (FCC part 15) EU: 865-868MHz (ETSI EN 302 208) ID:920-923MHz(PMK 2017)

Physical Characteristics	
Dimensions (LxWxH)	Full set: 164mm(L)×99mm(W)×148.5mm(H)
Weight	About 630g
Micro SD Card	Maximum support 64G Micro SD card
Storage Temp.	-40 °C ~ +85 °C
Operating Temp.	-20 °C ~ +70 °C
Humidity	5% RH ~ 95% RH (non-condensing)

Drop Spec.	1.2M Drop to concrete
Dust & Water Proof	IP65

Data Capture & Data Processing Device	
Camera	Rear: 13.0MP (PDAF) + Flash led Front: 5.0MP (FF)
Barcode Engine	2D Imager Barcode Scanner

Battery Supply	
Main Battery	Lithium Polymer 10,000mAh (Rechargeable)

Accessories	
Power Adapter	Input AC100V ~ 240V / Output DC 9V 2A



Inventory
Management



Warehouse
Operations



Asset
Tracking



Retail
Operations



Logistics &
Supply Chain



Field
Applications