



Pro900

ANDROID 8.1

Long Range RFID Reader

- Android
- 4G
- WiFi
- Bluetooth
- UHF
- 1D Barcode
- 2D Barcode
- IRIS
- NFC
- Camera
- GPS

The Pro900 is an Android rugged mobile computer that features a powerful processor, 8000mAh battery and exceptional UHF RFID capability. It can be equipped with a linearly or circularly polarized antenna. The Pro900 can read tags in bulk from long distances enabling it to be deployed in asset management, retail, warehousing, fleet management and many other applications.



Specification

Performance

CPU	Cortex-A53 Octa-core 2.5 GHz
RAM+ROM	3 GB + 32 GB
Expansion	Supports up to 128 GB Micro SD card
Operating System	Android 8.1; Soti MobiControl, SafeUEM supported

Communication

WLAN	IEEE802.11 a/b/g/n/ac, 2.4G/5G dual-band, internal antenna
WWAN (China)	2G: 900/1800 MHz
	3G: WCDMA: B1,B8
	CDMA2000 EVDO: BC0
WWAN (Overseas)	TD-SCDMA: B34,B39
	4G: B1,B3,B5,B8,B34,B38,B39,B40,B41
	2G: 850/900/1800/1900 MHz
WWAN (Others)	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 24.3 mm / 6.46 x 3.15 x 0.96 in.
Weight	654 g / 23.07 oz.
Display	5.2" IPS FHD 1920 x 1080
Touch Panel	Corning Gorilla Glass, multi-touch panel, gloves and wet hands supported
Power	Li-ion, rechargeable, 8000 mAh
	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, TypeC headphones supported
Audio	Speaker, 2 microphones
Keypad	4 front keys, 1 power key, 2 scan keys, 1 multifunctional key
Sensors	Gravity sensor, light sensor, proximity sensor

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 1.5 m / 4.9 ft. drops (at least 20 times) to the concrete across the operating temperature range
Tumble Specification	1000 x 0.5 m / 1.64 ft. falls at room temperature
Sealing	Host IP65 per IEC sealing specifications
ESD	±15 KV air discharge, ±6 KV conductive discharge

Developing Environment

SDK	Pro900 Software Development Kit
Language	Java
Tool	Eclipse / Android Studio

Data Collection

Camera

Camera	13 MP Autofocus with flash
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RFID (Optional)

UHF

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

* Ranges and rates depend on tags and environment

Barcode Scanning (Optional)

1D Linear Scanner	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	Zebra: SE4710 / SE4750 / SE4750MR; Honeywell: N6603
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	< 150 ms
Range	20-40 cm
FAR	1/10000000
Protocol	ISO/IEC 19794-6, GB/T 20979-2007

NFC (optional)

Frequency	13.56 MHz
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Accessories

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

* For detailed specification, please check Accessory Guide.

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