

Introduction

An RFID Reader is a radio frequency transmitter and receiver that can read and write information of an RFID tag. RFID Readers can also be fixed or portable. Portable, or mobile, RFID readers can be carried almost anywhere. RFID devices use electromagnetic fields to automatically identify and track compatible RFID tags. The tags contain unique electronically stored information, which is read by the RFID readers.

Handheld RFID readers are a great option for reading tags on the go and where the mobility of the reader is necessary. Handheld readers have integrated antennas, for easy operation and immediate interaction with the data.

Uses

RFID devices use electromagnetic fields to automatically identify and track compatible RFID tags. The tags contain unique electronically stored information, which is read by the RFID readers. RFID tags are used in many industries and commonly in security applications

Features

- Easy to Carry
- Unique Device Number
- Light in weight
- Long range reading capability as compared to HF Reader.



Technical Specifications:

S.No.	Parameters	Specification
Performance		
1	CPU	Cortex-A53 2.5 / 2.3 GHz Octa-core
2	RAM+ROM	3 GB + 32 GB / 4 GB + 64 GB (optional)
3	Expansion	Supports up to 128 GB Micro SD card
4	Operating System	Android 8.1; GMS, FOTA, Soti MobiControl, SafeUEM supported
		Android 11; GMS, FOTA, Soti MobiControl, SafeUEM supported. Committed support for a future upgrade to Android 12, 13, and Android 14 pending feasibility
Communication		
Android 8.1		
1	WLAN	IEEE802.11 a/b/g/n/ac, 2.4G/5G dual-band, internal antenna
2	WWAN	3G: WCDMA: B1/B8 CDMA2000 EVDO: BC0 TD-SCDMA: B34/B39
		4G: B1/B3/B5/B8/B34/B38/B39/B40/B41
3	Bluetooth	Bluetooth v2.1+EDR,3.0+HS,v4.1+HS
4	GNSS	GPS/AGPS, GLONASS, BeiDou; internal antenna
Android 11		
1	WLAN	IEEE802.11 a/b/g/n/ac, 2.4G/5G dual-band, internal antenna
2	WWAN	3G: WCDMA: B1/B2/B4/B5/B8 CDMA2000 EVDO: BC0 TD-SCDMA: A/F
		4G: B1/B2/B3/B4/B5/B7/B8/B12/B17/B20/B28A/B28B/B34/B38/B39/B40/B41
3	Bluetooth	Bluetooth 5.0
4	GNSS	GPS/AGPS, GLONASS, BeiDou; internal antenna
Physical Characteristics		
1	Dimensions	64.2 x 78.8 x 17.0 mm / 6.46 x 3.1 x 0.67 in. (for standard version)
2	Weight	288 g / 10.15 oz. (for standard version)

3	Display	5.2" IPS LTPS 1920 x 1080
4	Touch Panel	Corning Gorilla Glass, multi-touch panel, gloves and wet hands supported
5	Power	Main battery: Li-ion, rechargeable, built-in 5000 mAh Standby: over 350 hours Continuous use: over 12 hours (depending on user environment) Charging time: 3-4 hours (with standard adaptor and USB cable)
6	Expansion Slot	1 slot for Nano SIM card, 1 slot for Nano SIM or TF card
7	Interfaces	USB 2.0 Type-C, OTG, Type-C headphones supported
8	Sensors	Light sensor, proximity sensor, gravity sensor
9	Notification	Sound, LED indicator, vibrator
10	Audio	2 microphones, 1 for noise cancellation; 1 speaker; receiver
11	Keypad	4 front keys, 1 power key, 2 scan keys, 1 multifunctional key
User Environment		
1	Operating Temp.	-4°F to 122°F / -20° C to 50° C
2	Storage Temp.	-40° F to 158° F / -40° C to 70° C
3	Humidity	5% RH - 95% RH non condensing
4	Drop Specification	Multiple 1.8 m / 5.91 ft. drops (at least 20 times) to the concrete across the operating temperature range
5	Tumble Specification	1000 x 0.5 m / 1.64 ft. falls at room temperature
6	Sealing	IP65 / IP67 per IEC sealing specifications
7	ESD	±15 KV air discharge, ±6 KV conductive discharge
Data Collection		
Camera		
1	Rear Camera	13 MP Autofocus with flash
2	Front Camera (optional)	5 MP camera

RFID Reading		
1	Frequency	860-960MHz
2	Protocol	ISO18000-6B, ISO18000-6C, (EPC Class1 GEN2)
3	Range	Upto5meters
4	Tag Buffer	More than 50000tags
Barcode Scanning (optional)		
1	1D Linear Scanner	Zebra: SE965; Honeywell: N4313
2	1D Symbologies	UPC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS, etc.
3	2D Imager Scanner	Zebra: SE4710 / SE4750 / SE4750MR; Honeywell: N6603
4	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.
NFC		
1	Frequency	13.56MHz
2	Protocol	ISO14443A/B, ISO15693, NFC-IP1, NFC-IP2, etc
3	Chips	M1 card (S50, S70), CPU card, NFC tags, etc.
4	Range	2-4 cm
Accessories		
1	Standard	AC Adaptor, USB Cable, Lanyard, etc
2	Optional	Cradle, Holster, etc.
3	component optional	Iris,HF,UHF,InfraRed,Fingerprint,PSAM