

RPT100

Bluetooth UHF RFID & Barcode Reader



Intro

The RPT100 is Bluetooth UHF RFID & barcode reader, compatible with any host devices using Android, iOS and Windows (Mobile, CE, PC).

Unlike typical gun-type UHF RFID terminals, the RPT100 is slim and light weight (220grams) bar type, truly pocketable and easy to use. With advanced antenna technology and industry-leading Impinj R2000-based solution, the RPT100 ensure read reliability in challenging environment and long read range greater than 9 meters. Moreover, the RPT100 has full features of ruggedness, IP68 sealing completely submergible and 1.8 meter drop resistant.



Advantages

1. Slim & Lightweight

Unlike typical gun-type UHF RFID terminals, The RPT100 is slim and light weight (220grams) bar-type, truly pocketable and easy to use. Thanks to the advanced antenna design, the RPT100 delivers both convenience of use and maximum performance simultaneously.

2. The most advanced RFID engine, Impinj R-2000, is integrated

Industry-exclusive SJC(Self Jammer Cancellation) technology ensures read reliability in challenging environments, long read range of large RAIN RFID tag populations

Worldwide Compliance

An easy path to regulatory compliance with market proven reference designs

Long Range

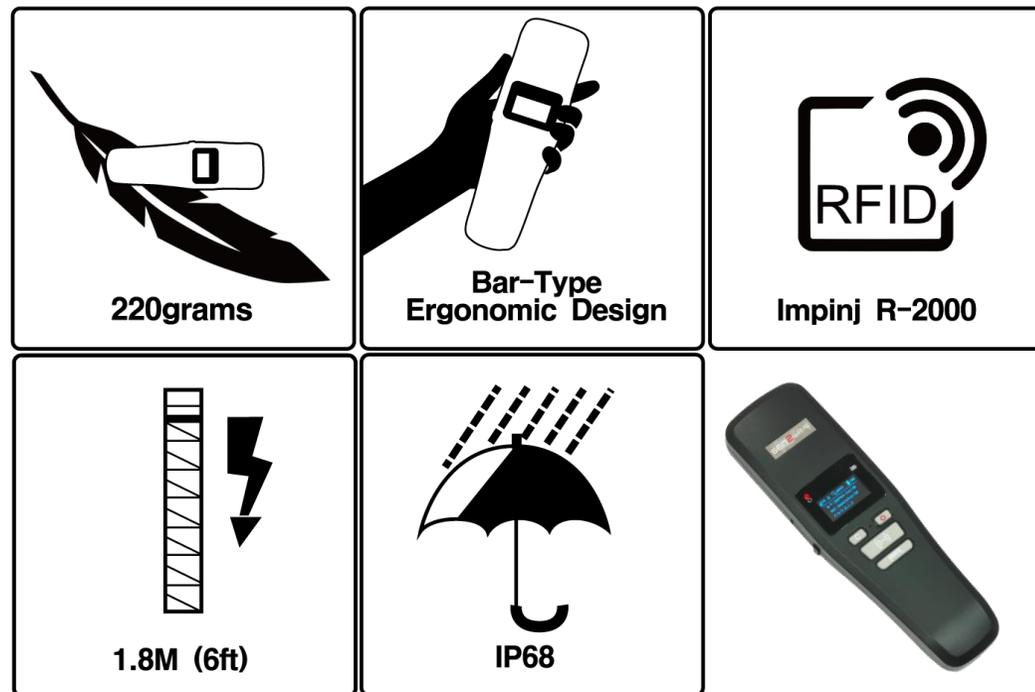
Market-leading receiver performance enables greater than 9 meters read range

Metal Environments

SJC technology maintains performance even with antenna reflections in metal environments

3. Ultra Ruggedness

IP68 completely submersible & Multiple drops to concrete:
1.8m / 5.9 ft.



Advantages

4. Compatible with various host devices



RPT100 is versatile UHF RFID & Barcode companion reader working with any existing Bluetooth enabled host devices such as a PC, smartphone or tablet running on OS Support of above Android 4.4, iOS7 and higher, Windows 10,8,7, Vista, XP, Mobile, CE, MAC. The RPT100 provides an economical and strategic way of extension to UHF RFID & Barcode reading.

5. Incorporated 2D Barcode and UHF reader

UHF RFID and 2D barcode data capture are in one integrated Bluetooth device. You can easily select what to read by easy toggle between RFID and barcode. Just simply scan RFID and barcode by pushing button, maximizing ease of use and productivity.

6. Application Development Support

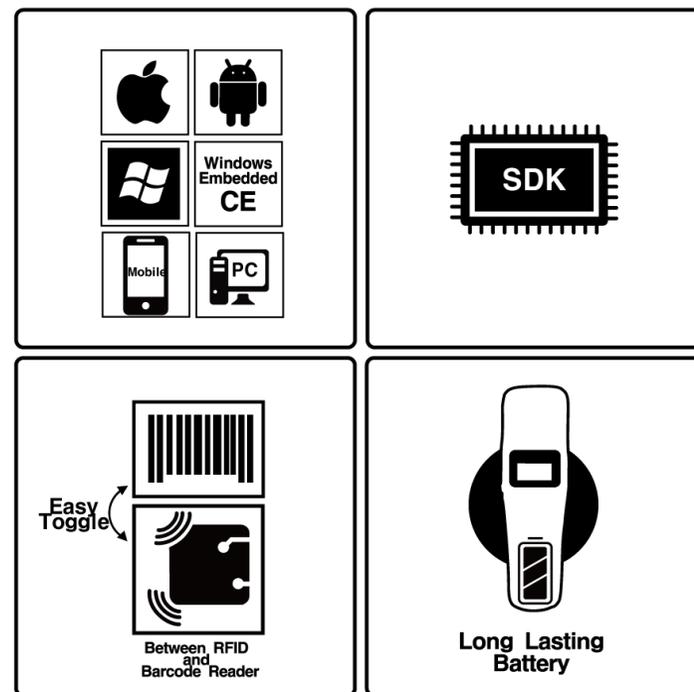
Extensive SDK, code samples, demo application and source code are available. Easy tool of serial commands are also available.

7. Long Lasting Battery

Support full shift operation, 10~12 hours

Last longer than 3 hours in continuous UHF tag reading at max read power (1W) and 50% duty level.

It is 4hours in charging hours and 40 hours in standby mode.



Advantages

8. Blue 1.3" Blue OLED Display

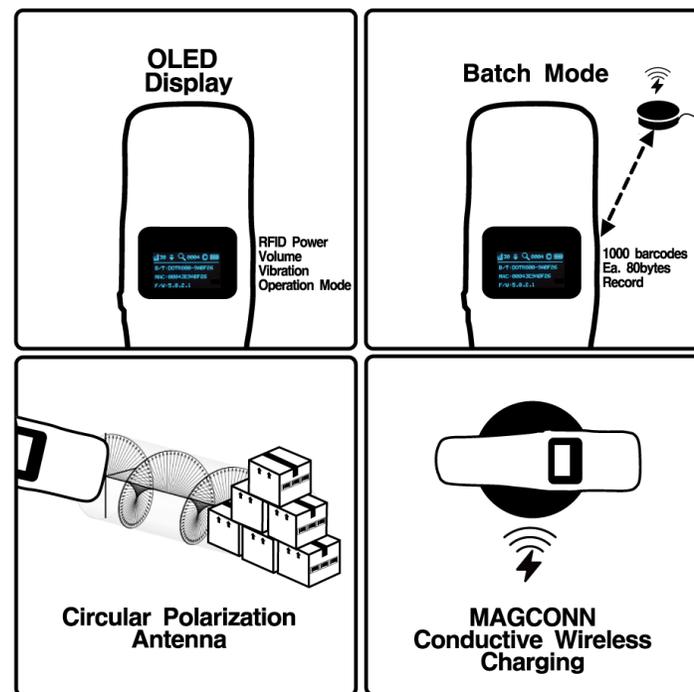
User can easily check up essential information for operation, such as battery status, Level of Read & Write Power, operation mode, and so on.

9. Conductive wireless charging & data sync Magconn

Conductive wireless connection Magconn is used to transfer data with 99% efficiency. By using Magconn compact wireless magnetic battery charger, one can charge power easily even in limited space and time.

10. Long distance reading circular antenna : circularly polarized electromagnetic wave

Regardless of tag orientation, reading performance is not affected at all even for tags in long range



Technical Spec

SECTION	Physical and Environmental Characteristics
Dimensions	64mm x 220mm x 27mm (WxLxH)
Weight	220g
User Input(Buttons)	Power, Control, Reset, RFID Scan, Barcode Scan (Total 5 buttons)
Display	1.3" Blue OLED
Battery	Rechargeable Lithium-ion 3,300mAh Continuous reading at max read power (1W) and 50% duty level : 3hours Standby mode: 40 hours Charging hours: 4 hours Full shift operation, 10~12 hours
Performance Characteristics	
Reader Chip	Impinj R-2000
Communication Protocols	EPC Global Gen2 / ISO 18000-6C
Memory	RAM 64KB, ROM 512KB Data Storage: Maximum total of 1000 RFID tags or Barcodes (60bytes each)
Compatible Host Devices (Bluetooth®) Power	OS Support of above Android 4.4, iOS7 and higher, Windows 10,8,7, Vista, XP, Mobile, CE, MAC
Compatible Host Devices (USB)	Virtual COM(USB to Serial)-Windows, Linux, Mac, Android

Technical Spec

SECTION	Environmental Ruggedness
Operating Temperature	-10°C to 50°C (14°F to 122°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Drop Specification	Multiple drops to concrete: 1.8m / 5.9 ft.
Environmental Sealing	IP68
	RFID Performance
Nominal Read Range	up to 9 m / up to 30 ft.
Antenna	Circular Antenna with circularly polarized electromagnetic wave
Frequency Range	CE 865MHz ~ 868MHz FCC 902MHz~928MHz
Output Power	Max. 30dBm (1W)

Technical Spec

SECTION	Communication
Bluetooth	Bluetooth v4.1 BLE, SPP/HID Profile
Bluetooth Frequency	2402 MHz ~ 2480 MHz
Bluetooth Class	Class 2
	Scanner
1D Model	Zebra SE965
2D Model	Newland NLS-EM3396 (Zebra SE4750 optional)

Technical Info

- Basic Screen



- Status Display LED

LED	Function	Status	Description
	USB/Magconn™	Orange	USB/Magconn™ connection status
		Red, Green blink	Bluetooth module initialize
		Red	Bluetooth connection stand-by
	Battery	Green	Bluetooth connection status
		Red	Battery charging
		Green	Battery fully charged



Accessories

NAME	Image
RPT100 Adaptor	 The image shows two black components. On the left is a rectangular RPT100 Adaptor with a circular port on its side. On the right is a smaller, cylindrical component with two metal pins protruding from its top surface.
RPT100 Cable	 The image shows a white cable with a standard USB-A connector on one end and a circular connector on the other. The cable is coiled and held together by a small yellow rubber band.
RPT100 Hand strap	 The image shows a black, flexible hand strap with a loop at one end and a small connector at the other.

Applications

