RP901 UHF/RFID

Wireless Bluetooth pocket-sized reader!

The Unitech RP901 is a compact, light-weight and pocket-sized UHF RFID reader. It is designed and engineered specifically to suit the UHF reading market and application requirements of mobile workers.

*Pair the RP901 with your **iOS, Android or Windows mobile device** via the Bluetooth connection and easily extend your mobile data collection with this UHF RFID reader.*

RFID technology

Radio Frequency Identification (RFID) is an automatic identification technology that has been used in many industries for decades as it allows users to identify objects easily via wireless communications. RFID uses electromagnetic fields to automatically identify and track tags attached to objects. The tags contain electronically stored information. RFID is one method for Automatic Identification and Data Capture (AIDC). Unlike a barcode, the RFID tag does not require to be within the line of sight of the reader, to capture its information as it can be read as long as they are within its range of reading.

RFID tags are used in many industries with a wide variety of applications, such as retail point of sales and in-store item-level tagging, asset tracking in inventory management, item tracking through warehouse as well as multiple applications in healthcare, pharmaceutical and medical business. The RP901 is the ideal solution for streamlining productivity and delivering mobile workers RFID reading capability at compact form factor.

Compact and easy to use

With dimension of 109.3mm length, 51.1mm width and 28.1mm thickness at weight of less than 106g this RP901 is comfortable an compact in size, making this device a great companion to carry around.

The RP901 requires no training to operate. It allows reading and transmission of RFID tag data to the mobile device easily with its singly-button reading design. Featuring a built-in Multicolour status LEDs, it shows the feedback on communication status like battery level and RFID collection status. In addition, the RP901 features a memory storage capacity of 2MB, making data loss extremely unlikely, even when it is out of range of the wireless signal. With a simple setting you can upload the data to the back-end system to complete your task without interruption.

Wireless communication

The RP901 supports single- / multiple-tag reader mode and it is integrated with a high performance compact antenna design. This device reads major RFID tags including EPC Class 1 Gen 2 and ISO18000-6C) standards and is available in multiple frequency bands for different countries (EU 868 MHz, US 915 or MHz, JP 920MHz).

Equipped with a high capacity and rechargeable Li-Ion battery, this device offers users the needed scanning performance during a full day´s work on a single charge.

Features:

- User-friendly operation with a pocket-sized enclosure
- Pairs with iOS, Android and Windows devices via Bluetooth 2.1.
- Support multi-protocol ISO 18000-6C, EPC Class 1 Gen2
- Available in multiple frequency bands (EU, US or JP)
- Ideal for proximity distance reading; reads up to 1m.
- Ideal of online and offline usage; features 2MB memory
- Enterprise durability: 1.2M drop protection and IP42 sealing
- High capacity rechargeable Lithium battery
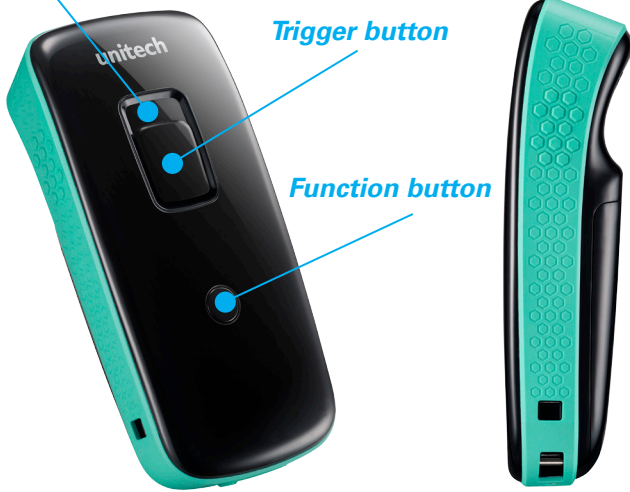- Capable of over 10.000 scans on a single battery charge*

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LED Indicator

Trigger button

Function button

90° and > *100cm* reading distance
RFID Tag (depends on RFID Tag)

Micro USB connector

Pogo pin cradle connector

v1 **RP901**
Specifications

System

Memory	2MB
Operation Voltage	3.7VDC
Battery	3.7V, 1100mAh, Lithium Battery
Battery Life	10000 scans
	(1scan/5sec, Bluetooth connected)
Charge Time	4hrs (fully charged)

Reader Performance

Frequency	860MHz ~ 960MHz
	(By country defined: EU 868 MHz,
	US 915 and MHz, JP 920Mhz).
RFID protocol	EPCglobal Class1 Gen2,
	ISO/IEC 18000-6C
Antenna	UHF compact antenna
Read Mode	Multiple Tag / Single Tag Mode
Reading Distance	Up to 100cm (Depends on RFID Tag)

Mechanical

Dimensions	L 109.3 x W 51.4 x H 28.1mm
Weight	106g (with battery)
Material	PC

Environmental

Operating Temperature	-10°C to 50°C
Storage Temperature	-20°C to 60°C
Humidity	0% to 95% (non-condensing)
Drop Durability	1.2M
Sealing	IP42

Communication / Indicators

Radio	BT 2.1 + EDR
Range	> 10 m (line-of-sight)
Interface/ Profile	BT(SPP/HID)
	Micro USB(HID/VCP)
Indicators	LED Indicator / Trigger & Function
	buttons / Vibrator / Audible Tone

Regulatory

EMC	CE, FCC, BSMI, CCC
RF	CE, FCC, NCC, SRRC
ESD	Functional after 4KV contact,
	8KV Air discharge

Accessories

Battery Pack
Micro USB to USB Cable
Wrist strap
1 Slot Charging cradle with power supply (optional)
5 Slot Charging cradle with power supply (optional)

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