

i-hand r2





UHF RFID
Bluetooth Reader

Fast and accurate reading,
Powerful integration

i-hand r2 is a newly-developed handheld data collection device with stylish design and incredible performance. It delivers superior UHF reading and writing, barcode scanning, transmits data to the data center via Bluetooth with ease. It can complete tasks in inventory management, asset management, and inspection etc.

Disclaimer: Our company, reserves the right to change its products and services at any time without notice. Our recommendations are based on our best knowledge and experience. As the products are used beyond our control we cannot be held liable for any damages caused when using the product. Use extra care in handling the product and observe standard storage and handling practices to minimize ESD (electro static discharge). This technical specification replaces all earlier ones.

Key features:

-  Fast and accurate reading
-  Easy integration
-  Bluetooth 4.0
-  Affordable price



Specification

Physical Characteristics	
Dimensions	282 x 117.5 x 32 mm / 11.10 x 4.63 x 1.26 in.
Weight	334 g / 11.78 oz. (with battery)
Colour	White
Appearance material	Plastic
Keypad	PWR button (side), up, down, return, ok, SCAN button (front)
Power	Battery specification: 5200mAh removable battery
	Standby: over 70 hours (keeping bluetooth connected)
	Continuous use: up to 6 hours (UHF reading)
	Charging time: 3-4 hours (with standard adaptor and USB cable)
Display	1.77 inch, 128 x 160
Indicator LED	Power, Work, Bluetooth
buzzer	Support
Interfaces	Micro-USB
Performance	
MCU	Cortex-M3
	72MHz
Storage	50000 tags
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 to concrete across the operating temperature range
Tumble Specification	1000 x 0.5 m / 1.64 ft. falls at room temperature
ESD	±15 KV air discharge, ±8 KV conductive discharge



Bluetooth



1D Barcode



2D Barcode



UHF

Accessories (See details in Accessory Guide)



AC Adapter



USB cable

Developing Environment	
SDK	Android / IOS
Tool	Android Studio / Xcode
Language	Java / Objective-C
Communication	
Bluetooth	Bluetooth 4.0, BLE
Data Collection	
Barcode Scanning (Optional)	
2D Imager Scanner	SE2707
1D Symbolologies	UPC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS, etc.
2D Symbolologies	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.
UHF	
Engine	CM2000-1 module based on Impinj Indy R2000; CM710-1 module based on Impinj E710 (coming soon)
Antenna	Linear Polarized antenna (4dB)
Frequency	920-925MHz/902-928MHz/865-868MHz
Protocol	EPC C1 GEN2 / ISO18000-6C
Module power	1W (30dBm, support +5~+30dBm adjustable)
	2W Optional (33dBm, for Latin America, etc.)
R/W range	Up to 15m(open outdoors, Impinj MR6 tag)
Fastest Read Rate	900+ tags/sec
* Ranges and rates depend on tags and environment	



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