

UHF RFID Handheld Reader

AZ-R2



Key Features

Operating Frequency
920-925 MHz / 902-928MHz / 865-868MHz

Engine
Based on Impinj E710

International Standard
EPC C1 GEN2 / ISO 18000-6C

Fastest Read Rate
900+ tags/sec

Bluetooth
Bluetooth Low Energy (BLE) 5.0

Max Read Range (Impinj E710 chip)
31m

1. Product Overview

This is a 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.

2. Product Parameters

2.1 Physical Characteristics

SKU	AZ-R2
Dimensions	282×117.5×32mm / 11.10×4.63×1.26in.
Weight	334g / 11.78oz. (with battery)
Colour	White
Appearance Material	Plastic
Keypad	PWR button (side), up, down, return, ok, SCAN button (front)
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, 128×160
Indicator LED	Power, Work, Bluetooth
Buzzer	Support
Interfaces	Type-C



2.2 Performance

MCU	Cortex-M3
	72 MHz
Storage	50000 tags

2.3 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 to 95%RH non condensing
Drop Specification	Multiple 1.5 m / 4.9 ft. drops to concrete across theoperating temperature range
Tumble Specification	1000×0.5 m / 1.64 ft. falls at room temperature
ESD	±15 KV air discharge, ±8 KV conductive discharge

2.4 Developing Environment

SDK	Android / IOS
Tool	Android Studio / Xcode
Language	Java / Objective-C

2.5 Communication

Bluetooth	Bluetooth Low Energy (BLE) 5.0
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2.6 Barcode Scanning (Optional)

2D Imager Scanner	SE2707
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 Symbologies	PDF417, MicroPDF417, Composite, RSS, TLC39, Datamatrix, QR code, Micro QR code, Aztec,MaxiCode; Postal Codes: US PostNet, US Planet, UK Postal, Australian Postal, Japan Postal, Dutch Postal (KIX), etc.

2.7 UHF

Engine	Based on Impinj E710
Antenna	Linear Polarized antenna (4dBi)
Frequency	920-925 MHz / 902-928 MHz / 865-868 MHz
Protocol	EPC C1 GEN2 / ISO 18000-6C
Module Power	1W (30dBm, support +5~+30dBm adjustable) 2W Optional (33dBm, for Latin America, etc.)
Max Read Range (Impinj E710 Chip)	26m (Impinj MR6 tag, size 70×15mm) 7m (Impinj M750 tag, size 70×15mm) 31m (Alien H3 Anti-Metal tag, size 130×42mm)
Fastest Read Rate	900+ tags/sec



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