UHF Desktop RFID Reader

UHF | **ISO/IEC 18000-6C**

Key Features

Operating Frequency
UHF 860-960 MHz

Engine
Based on Impinj E310 / E510

International Standard
EPC C1 GEN2 / ISO 18000-6C

Read Range
Up to 50cm

Sealing
IP65

Type C USB
USB connection to realize data transfer

Bluetooth
Bluetooth Low Energy (BLE) 4.0

1.   Product Overview

This is a newly-developed desktop UHF reader. It supports Windows/Android/IOS applications, and enables short read distance within 50cm. Combined with high-efficiency collision processing algorithm, it delivers fast reading and writing of tags and maintains high identification rate as well. And it allows data transmission via Bluetooth, Type-C, USB. R3 can be deployed in retail collection, logistics, identity verification, smart parking, access control, anticounterfeiting system, production process control, etc

2.   Product Parameters

2.1 Physical Characteristics

SKU	AZ-R3
Dimensions	318×318×20mm
Weight	1133g / 39.96oz.
Port	USB Type-C
Power Supply	USB, Type-C
LED Indicator	Power	BT connection status	Working (flash when scanning tags)

RFID Tag

2.2 Developing Environment

SDK	USB, Android / Windows
	Bluetooth, Android / IOS

2.3 Communication

Type C USB	USB connection to realize data transfer
Bluetooth	Bluetooth Low Energy (BLE) 4.0

2.4 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
Sealing	IP65

2.5 UHF

Engine	Based on Impinj E310 / E510
Frequency	865-868 MHz / 920-925 MHz / 902-928 MHz (custom-design for frequency band)
Protocol	EPC C1 GEN2 / ISO 18000-6C
Output Power	1dBm-30dBm, 1dBm (stepper)
Read Range	Up to 50cm