

UHF Desktop RFID Reader

AZD-R1



Key Features

Operating Frequency
UHF 860-960 MHz

Engine
Based on Impinj E310/E510

International Standard
EPC Class1 Gen2, ISO/IEC 18000-6C

Read Range
Up to 50 cm

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 50 cm. 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. AZD-R1 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	AZD-R1
Dimensions	318×318×20 mm
Weight	1133 g/39.96 oz.
Port	USB Type-C
Power Supply	USB, Type-C
LED Indicator	Power BT connection status Working (flash when scanning tags)

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~+122°F/-20°C~+50°C
Storage Temp.	-40°F~+158°F/-40°C~+70°C
Humidity	5% RH~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 Class1 Gen2, ISO/IEC 18000-6C
Output Power	1 dBm-30 dBm, 1 dBm(stepper)
Read Range	Up to 50 cm