UHF Desktop Reader

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, anti-counterfeiting system, production process control, etc.

Specification

Physical Characteristics

Dimensions	318 mm × 318 mm × 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)

Developing Environment

SDK	USB, Android / Windows
	Bluetooth, Android / IOS

Communication

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

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
Sealing	IP65

UHF

Engine	Based on Impinj E310 / E510
Frequency	865-868 / 920-925 / 902-928 MHz (custom-design for frequency band)
Protocol	EPC C1 GEN2 / ISO18000-6C
Output Power	1dBm-30dBm, 1dBm (stepper)
Read Range	Up to 50cm