

R5

Wearable Wrist UHF Reader



R5 is a wearable UHF reader that enables read distance up to 9m. Connected with wristband by magnetic buckle (optional), it features removable battery, performs data transmission via Type C USB, and enables user information interaction via Bluetooth coordinated with APP or SDK. And it also can be paired with Android/IOS device to expand RFID capability. This RFID reader can be suitable for warehousing, power inspection, asset management, retail, etc., which provides users with more flexibility to efficiently finish their tasks at hand..



RFID UHF



BLUETOOTH



USB



R5 Specifications

Physical Characteristics	
Dimensions	108*78*18mm
Weight	200g
Power	2000 mAh (removable)
Communication	Bluetooth 4.0, BLE
Interfaces	USB 3.0 Type-C
Indicators	Red LED: ON when charging; Blue LED: ON when device has been fully charged; Green LED: ON when battery is higher than 20%; Green LED: flash when battery is lower than 20%; Bluetooth LED: On when BT is paired Bluetooth LED: OFF When no BT connected

Performance	
CPU	Cortex M3

Developing Environment	
SDK	Android and IOS

User Environment	
Operating Temp.	-20 °C to 50 °C
Storage Temp.	-40 °C to 70 °C
Humidity	5%RH - 95%RH non condensing
Drop Specification	Multiple 1.2m drops to the concrete across the operating temperature range
Sealing	IP65 per IEC sealing specifications
ESD	15KV air discharge, ±8KV conductive discharge

RFID UHF	
Engine	CM710-1 module based on Impinj E710 CM2000-1 module based on Impinj Indy R2000
Frequency	865MHz-868MHz
Protocol	EPC C1 GEN2 / ISO18000-6C
Power	1W (30dBm, support +5-+30dBm adjustable) 2W Optional (33dBm, for Latin America, etc.)
Antenna	Circular Polarized Antenna (3dBic)
Read/Write Range	Up to 10m (open outdoors)

(*) Read/write Range and Reading Rates depend on tags and environments. Tested with Impinj MR6 tag

Communication	
Bluetooth	Bluetooth 4.0 BLE



Wrist



Multiple Battery Charger

TechSigno srl is an independent company that build RFID system and intelligent objects for multimedia, industrial, transportation, medical, and wireless applications. Working closely with our customers, we meet the specific made-to-order demands of our customer to achieve maximum functionality, efficiency, reliability and therefore satisfaction.

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