

AI-RF-BT-R7

Wearable BT UHF Reader



AI-RF-BT-R7 is a newly-developed wearable UHF reader that enables read distance of 9m. By adapting wrist strap or arm strap, it can be attached to mobile phone, tablet and other devices by magnetic attachment. 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.



Specification

Physical Characteristics

Dimensions	108 mm × 78 mm × 18 mm
Weight	200 g / 7.05 oz.
Port	USB Type C
Button	ON / OFF, SCAN
Battery	2000 mAh (removable)
Charging Current	5 V / 1.5 A
Charging Duration	2 hours
LED Indicator	Red indicator will be ON when charging;
	Green indicator will be ON when device has been fully charged;
	Blue indicator will be ON when battery is higher than 20%;
	Blue indicator will flash when battery is lower than 20%;
	Bluetooth is not paired when bluetooth indicator is OFF;
	Bluetooth is paired when bluetooth indicator is ON

Developing Environment

SDK	Android / IOS SDK Supported
Security	RFID Encrypted Module (reserve)

Communication

Type C USB	USB connection to realize data transfer
BT	Bluetooth 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
Dropping	1.2 m / 3.94 ft. dropping on concrete
Sealing	IP65

UHF

Engine	CM710-1 module based on Impinj E710 CM2000-1 module based on Impinj Indy R2000
Antenna parameter	Circular Polarized Antenna (3dBic)
Frequency	920-925 MHz / 902-928 MHz / 865-868 MHz
Protocol	EPC C1 GEN2 / ISO18000-6C
Power	1W (30dBm, support +5~+30dBm adjustable)
	2W Optional (33dBm, for Latin America, etc.)
R/W range	Up to 9 m (open outdoors, Impinj MR6 tag)
Fastest Read Rate	900+ tags/sec

*Ranges and rates depend on tags and environment

Accessories (Optional)

Wrist strap / arm strap / magnetic handle