

# MR20

## Wearable BT UHF Reader



MR20 is a wearable Bluetooth UHF readers. Being a compact and portable device, it can be operated together with gloves, wristbands, or lanyards and make your work much more flexible and convenient. With a built-in UHF module MR20 possesses a powerful data-collection and transmission function via a simple Bluetooth connection with Android/iOS devices. Removable battery and fast charging capability enable it to achieve work continuity for a long duration. Besides, this tiny device has the protection features like dust-proof, waterproof, shockproof, and drop resistance. All these functions make the MR20 a most adaptable device in a wide spectrum of circumstances such as logistics & express delivery, retail store management, warehouse management, power patrol inspection, asset management, e-commerce picking, and tickets checking, etc. helping users free their hands and significantly improve work efficiency.



RFID UHF



BLUETOOTH



USB



# MR20 Specifications



## Physical Characteristics

<b>Dimensions</b>	50*62*19mm
<b>Weight</b>	64gr with battery
<b>Color</b>	Yellow, Blue, Grey
<b>Battery</b>	1200mAh Removable
<b>Charging time</b>	1h
<b>Charging Current</b>	1.5A @ 5V
<b>Interfaces</b>	USB Type-C
<b>Light</b>	Green, Red, Blue LED 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%;
<b>Indicator Status</b>	Bluetooth LED: On when BT is paired Bluetooth LED: OFF When no BT connected
<b>Keypad</b>	1Power Key, 1 Scan

## Performance

<b>CPU</b>	Cortex M3
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## Developing Environment

<b>SDK</b>	Android and IOS
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## Communication

<b>Bluetooth</b>	Bluetooth 5.0
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## RFID UHF

<b>Engine</b>	Impinj E510 / E310 / CM-Q
<b>Frequency</b>	865MHz-868MHz
<b>Protocol</b>	EPC C1 GEN2 / ISO18000-6C
<b>Power</b>	0.5W (27dBm, support +19-27dBm adjustable)
<b>Antenna</b>	Linear Polarized Antenna (-2.2dBi)
<b>Read/Write Range</b>	80cm

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

## User Environment

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

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TechSigno Srl  
Via del Boschi, 2/13 - 33040 Pradamano (UD) - ITALY  
T. +39 0432 603604 @ info@techsigno.com