



# MR18

## UHF RFID Sled Reader



Bluetooth



1D Barcode



2D Barcode



UHF

MR18 RFID Sled Reader features powerful UHF reading and writing (Impinj R2000 chip), and barcode scanning with high sensitivity. You can attach mobile phone to MR18 UHF Sled Reader for a complete one-piece solution. The device can be widely deployed in power patrol inspection, asset tracking, clothing inventory, warehouse management, vehicle management, financial management and so forth.



Sled Reader



Sled Reader with  
Mobile Case



Sled Reader with  
Customized Holder

# Specification

## Physical Characteristics

<b>Dimensions</b>	143x76x140mm / 5.63x2.99x5.51in
<b>Weight</b>	Sled Reader: 483g/17.04oz
	Sled Reader with Mobile Case: 453g/15.98oz
	Sled Reader with Customized Holder: 500g/17.64oz
<b>Colour</b>	Black
<b>Power</b>	Battery specification: 5200mAh
	Standby: over 70 hours (keeping bluetooth connected)
	Continuous use: up to 6 hours (UHF reading)
	Charging time: 3-4 hours (with standard adaptor and USB cable)
<b>Interfaces</b>	USB3.0 Type-C
<b>Buzzer</b>	Support
<b>Indicator LED</b>	Power, Work, Bluetooth
<b>Product material</b>	Plastic
<b>Size of adapted phone</b>	Sled Reader: Width 68*80 mm, thickness ≤ 22 mm
	Others: Based on phone case or holder

## Performance

<b>MCU</b>	Cortex-M3
	72MHz

## User Environment

<b>Operating Temp.</b>	-20°C~+50°C
<b>Storage Temp.</b>	-40°C~+70°C
<b>Humidity</b>	5%RH - 95%RH non condensing
<b>Tumble Specification</b>	1000 x 0.5m/1.64ft falls at room temperature
<b>Drop Specification</b>	Multiple 1.5m/4.9ft drops to concrete across the operating temperature range
<b>Sealing</b>	IP54 per IEC sealing specifications
<b>ESD</b>	±15KV air discharge, ±8KV conductive discharge

## Developing Environment

<b>SDK</b>	Android / IOS
<b>Tool</b>	Android Studio / Xcode
<b>Language</b>	Java / Objective-C

## Communication

<b>Bluetooth</b>	Bluetooth 4.0, BLE
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## Data Collection

<b>UHF</b>	
<b>Engine</b>	Based on Impinj Indy R2000
<b>Antenna parameter</b>	Circular Polarized Antenna (3dBic)
<b>Frequency</b>	920-925MHz/902-928MHz/865-868MHz
<b>Protocol</b>	EPC C1 GEN2 / ISO18000-6C
<b>Power</b>	1W (30dBm, support +5~+30dBm adjustable)
	2W Optional (33dBm, for Latin America, etc.)
<b>R/W range</b>	>22m(indoors); >10m(open outdoors, Impinj MR6 tag)
<b>Fastest Read Rate</b>	900+ tags/sec

\*Ranges and rates depend on tags and environment

## Barcode Scanning (Optional)

<b>2D Imager Scanner</b>	SE2707
<b>1D Symbologies</b>	UPC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS, etc.
<b>2D Symbologies</b>	PDF417, MicroPDF417, Composite, RSS, TLC-39, Datamatrix, QR code, Micro QR code, Aztec, MaxiCode; Postal Codes: US PostNet, US Planet, UK Postal, Australian Postal, Japan Postal, Dutch Postal (KIX), etc.

## Accessories (See details in Accessory Guide)



AC Adapter



USB cable

Notice: Product specifications are subject to change without prior notice. / Model: MR18 / Update Date: 2020-08-27

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