



Wearable Bluetooth UHF RFID Reader



SKU:	RS-MR20
Frequency:	EU 865-868 MHz US 902-928 MHz JP 920-925 MHz
Engine:	CM-3N module based on Impinj E310
Protocol:	EPCglobal Class 1 Gen 2, ISO/IEC 18000-63
Interfaces:	USB Type-C, Bluetooth Low Energy (BLE) 5.0
IP Rating:	IP65

The Wearable Bluetooth UHF RFID Reader is a compact, ultra-lightweight device (just 64g) designed for smooth and efficient short-range RFID scanning. Powered by CM-3N module based on the Impinj E310, it supports EPCglobal Class 1 Gen 2 and ISO/IEC 18000-63 protocols, with enhanced features enabled by Impinj Gen2X, offering a maximum read range of 80 cm. Equipped with Bluetooth Low Energy (BLE) 5.0, Android/iOS SDK support, and a 1200mAh removable battery, this reader delivers reliable performance in retail, logistics, and warehouse environments. Built for comfort and durability, it features IP65-rated sealing and offers various wearable options to suit different operational needs.

Physical Information	Dimensions	50×62×19mm / 1.97×2.44×0.75in
	Weight	64g / 2.26oz (with glove: 90g / 3.17oz)
	Power	1200 mAh (removable)
	Charging Current	5 V / 1.5 A
	Charging Duration	1 hours
	Keypad	ON/OFF, SCAN
	Indicator LED	Red indicator will be ON when charging, Blue indicator will be ON when device has been fully charged, Green indicator will be ON when battery is higher than 20%, Green 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
	Interfaces	USB Type-C, Bluetooth Low Energy (BLE) 5.0

Technical Information	Engine	CM-3N module based on Impinj E310
	Frequency	EU 865-868 MHz US 902-928 MHz JP 920-925 MHz
	Protocol	EPCglobal Class 1 Gen 2, ISO/IEC 18000-63
	Enhanced Feature	Impinj Gen2X
	Power	0.5W (27dBm, support +19 to 27dBm adjustable)
	Max Read Range	80 cm
	Antenna	Linear Polarized Antenna (-2.2dBi)
	MCU	Cortex-M3, 72MHz

Developing Environment	SDK	Android / iOS SDK Supported
	Security	RFID Encrypted Module (reserve)

Additional Information	Operating Environment	-20 to +65°C, 10% to 95% RH, non-condensing
	Storage Environment	+18 to +28°C, 10% to 95% RH, non-condensing
	Drop Specification	1.5 m dropping on concrete
	IP Rating	IP65
	Industry	Retail, Logistics, Warehousing, Manufacturing, Healthcare, Aviation, E-commerce
	Applications	Inventory auditing, Inbound/outbound management, Order picking, Item tracking, Asset management, Patient identification, Equipment and tool control, Security patrols, Ticketing and access control, Supply chain visibility

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