



**RS38**  
series

**UHF RFID READER**

## Superior Sensitivity and Performance

The RS38 UHF RFID reader offers exceptional sensitivity and performance for demanding applications, reading over 1300 tags per second at distances up to 10+ meters. It meets extensive reading needs and complies with the EPC Global Gen 2v2 standard, ensuring high security in warehouses, retail stores, and healthcare facilities.



## Optimized RFID Functionality for Better Productivity

Data collection is stable and secure with a direct 8-pin electrical connection to the host device. Users can easily switch between RFID and barcode scanning using hotkeys assigned via the Button Assignment utility. The Triggerless function in EZEdit also offers a one-click, software-triggered RFID reading option, reducing user fatigue.

## Extended Power and Flexible Charging

Combining the RS38's battery with the UHF RFID reader's 3,000 mAh battery provides enough power to support an entire work shift, eliminating work interruptions and battery replacements. Both devices can charge together on a single cradle, snap-on cable, or with a direct battery change. Battery levels for both can be monitored on the mobile computer screen, offering multiple fast charging options.







## Rugged and Reliable for Intensive Use

CipherLab's UHF RFID readers are IP54 rated for dust and water resistance and withstand 1.2-meter drops. Their ergonomic design, tested for reliability with 2.5 million trigger presses, features a slim, comfortable handle, making them ideal for intensive RFID and barcode data collection.

**Comprehensive software support, including RFID Android SDK, EZConfig, and EZEdit apps, saves users time on development and configuration.**

### EZConfig



EZConfig quickly configures CipherLab UHF RFID readers, allowing customization of Scan Settings, Filter options to include or exclude tag data, and Multi-tag Mode for power savings and high-speed reading. It supports multiple tag types, filters duplicates and provides five profiles for easy application switching, which is ideal for warehouse inventories and store replenishment.

### EZEdit



EZEdit provides easy access to CipherLab UHF RFID readers' Read, Write, and Lock functions. The Lock function secures tag data by restricting access, while the Inventory function allows scanning multiple tags, providing total reads and unique results. Tag Locating uses audible beeps to pinpoint tag locations, with volume indicating proximity.

Enhance the CipherLab RS38 with a UHF RFID reader for optimized inventory management. Integrate UHF scanning without pairing, and easily switch between RFID and 1D/2D barcode collection.

The device processes large quantities of tags efficiently with long-lasting power and superior software support for improved productivity.





# RS38 UHF RFID READER



## Modular Design

Easily attach RS38 to the dedicated UHF RFID reader



Large Touch Screen for Retail and T&L



Locate tags for fast item finding



Accurate Multi-Type Tag Reading

**1300+ tags/sec,  
up to 10+ meters**



Alternative Software Trigger for Continuous RFID Scans



Power saving and Multi-Tag mode for large-scale warehouse inventory reading



Encrypted and Locked Tag Data for Security

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Physical characteristics	Compatible host	CipherLab RS38 mobile computer
	Communication	Electrical 8-pin connection
	Dimension	Without RS38: 186.2mm x 93.8mm x 153mm With RS38: 186.2mm x 93.8mm x 165.1mm
	Weight	Without RS38: 374.70 g With RS38: 680.75 g
	Power	Li-ion battery pack Typical voltage : 3.6V Typical capacity : 3000mAh
	Notification	R/ G/ B LED
	Input	Trigger key
RFID performance	Standard	EPC Class1 Gen 2 v2
	RF module	Impinj E710 high performance UHF RFID chipset solution
	Antenna	Circularly polarized
	Fastest read data rate *1	1300+ tags/sec
	Multi tags read data rate*2	850+ tags/sec
	RF power level	5-33, 28 steps
	Nominal read range*1	+10 m (+32.8 ft)
	Max Read Range	30 m (+98.4 ft)
	Frequency range	US : 902~928 MHz EU : 865~868 MHz TW : 922~928 MHz JP : 916~920 MHz AU : 920~924 MHz NZ : 920~924 MHz MA : 867.7~867.9 MHz
User environment	Drop	1.2m (With RS38)
	Operating temperature	-20°C to 50°C / -4°F to 122°F
	Storage temperature	-30°C to 70°C / -22°F to 158°F
	Sealing	IP54
	Charging time	Full charged time approximate 6 hrs (charge with RS38 data terminal)
	ESD	± 15kV air discharge / ± 8kV contact discharge
	EMC	CE, RCM, FCC, NCC, IC, JRL, EAC, NBTC, WPC
Software	RFID Android Software Development Kit	
	EZConfig with filter repeated tags	
Accessories	EZEdit	
	Battery, Battery charger	
Warranty	1 year	

- Maximum read rate and read range are subject to the function setting, tag performance, test environment and conditions. The test result is based on Smartrac DogBone RFID tag Impinj Moza R6-P (97 x 27 mm / 3.82 x 1.06 in).
- The Scanning speeds are reference values. Actual multiple scanning speeds will depend on the environment. The result tested by Cipherlab Fastest mode setting with FM0 400KHz/640KHz, Section0, Dynamic Q in ALN9740 700 tags space.

## ACCESSORIES



Battery charger



Battery



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