



**UHF RFID READER**

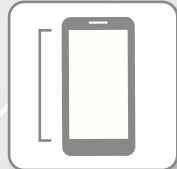


# A Simple Snap Increases Efficiency and Productivity to the Max

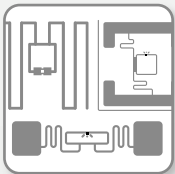
Software utilities of EZConfig and EZEdit provide different settings to best fit user's individual needs.



Long battery life.



The large touch panel applies to retail and T&L



**Comprehensive Mode**  
The ability to read multiple types of tags displayed in various direction with high accuracy and elimination of duplication, suitable for replenishment in a store.



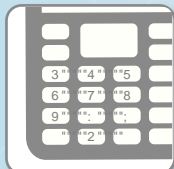
Modular design. Simply attach the handheld computer onto the dedicated UHF RFID reader



**Tag Locating**  
The ability to identify the location of a specific tag when encountering missing a specific item.



**Multi-tag Mode**  
Power save and the ability to read large amount of tags laid on the same plane at a high speed, suitable for warehouse inventory management.



The keypad-equipped applies to warehousing and where the large input data is required



RS35 UHF RFID reader



Triggerless – the alternative software trigger option, in addition to the hardware trigger, enables continuous RFID scans.



**Lock/Unlock**  
Data on tag is encrypted and locked for security to prevent threats such as information leakage.



RK25 UHF RFID reader



900+ tags/ per second



High performance RFID reading capability. Reading range over 8 meters.

700+ tags / per second

8+ meters





# Maximize Efficiency and Productivity for Inventory Management



CipherLab RK25 UHF RFID reader and RS35 UHF RFID reader provide an add-on RFID solution by adding CipherLab RK25/RS35 mobile computer onto it. The RK25/RS35 UHF RFID reader is a compact and cost-effective way for adding mobile RFID read/write capability to existing investment on RK25/RS35 device - bringing productivity and efficiency to inventory management tasks in a simple way.

## Upgradeable Functions with the UHF RFID Reader

CipherLab's UHF RFID reader is specially made to upgrade your RK25/RS35 functions. With the RK25/RS35 UHF RFID reader, your device quickly gains the flexibility to switch between RFID and 1D/2D barcode data collection. Its ability to quickly read large amounts of tags is perfect for the retail storage and warehouse applications. Being rugged with efficient inventory management, the RK25/RS35 UHF RFID reader also has the long lasting power to sustain a full working day. Combined that with great software support, the RK25/RS35 UHF RFID reader makes efficient productivity quick and simple.



## The Flexibility of RFID Functionality

Whenever RFID capabilities are needed, user can just simply slide RK25/RS35 mobile computer onto the RK25/RS35 UHF RFID reader. With a direct electrical 8-pin connection with the host device, users can enjoy more stable and secure data collection and software upgradability for RFID reader. It is on user's demand to easily switch between RFID reading and barcode scanning. Once setting up hot keys on the RK25/RS35 thru the Button Assignment utility, switching data capture functions can be done with a simple press of a button. Moreover, Triggerless function can be enabled in EZEedit to control reading by a software trigger on the RK25/RS35 screen, allowing continuous RFID reading with only one click to start or end the task. It can be an alternative in addition to the hardware trigger to fulfill user's demands in data capture, as well as to prevent fatigue from user's fingers.



## Best-in-class UHF RFID Reading Sensitivity and Performance

The CipherLab UHF RFID readers provide the best-in-class RFID reading sensitivity and performance. The RK25/RS35 UHF RFID reader complies with EPC Global Gen2 v2 standard and the RFID reader can read RFID tags in common supply chain. The Gen2 v2 standard can satisfy higher security and privacy requirements, which is ideal for applications such as retail and healthcare. With Impinj Indy RFID module and high performance circularly polarized antenna, users get maximum read/write speed and coverage. The RK25 UHF RFID reader can read over 700 tags per second. Together with its two different keypad options, it applies to warehousing environment where the large input data is required. On the other hand, the RS35 UHF RFID reader has the high-speed ability to read over 900 tags per second. The multi-tag reading rate can reach 600+ tags within 2 meters. Together with its large touch panel, the RS35 UHF RFID reader applies to retail and T&L. It does more than satisfy the long-range reading demands of the warehouse/in-store inventory management. Users can easily scan and gather loads of RFID tags while walking around the store or the warehouse.



## Ruggedness and Ergonomic Design

The RK25/RS35 UHF RFID reader inherited CipherLab's rugged mobile device designs so users can operate it without worry. It features IP54 ruggedized design which prevents infiltration of dust and water. It passes a 1.2-meter drop resistance test to withstand occasional and accidental drops in all kinds of working environments. The trigger has also passed the life test of 2.5 million times of press to ensure its reliability and durability. The ergonomic design of a slim line grip with a comfortable trigger makes intensive scans of RFID and 1D/2D barcode data collection simple for the users.



## Long Lasting Battery with Flexible Charging Options

Combining the 4,000 mAh battery of the RK25 or the RS35 with the RFID reader's 3,000 mAh battery, users have more than enough power to support a full work shift. You no longer have to worry about any interruptions or battery replacements. Moreover, you can monitor the battery lives of both the RK25/RS35 mobile computer and RFID reader on the top right and left corners of the RK25/RS35 screen. Users can flexibly charge the RFID reader while connected to the mobile computer by using the charging cradle or Snap-On cable. Users can also hot swap the battery of RFID reader when the power is running low and charge the battery by its battery charger.

## Easy Deployment with CipherLab Software Support

Extensive software support is available including RFID Android Software Development Kit, apps of EZConfig and EZEedit. These utilities save users' valuable development and configuration time to spend on their business rather than programming.



EZConfig provides a convenient console for quick configuration of all the settings in RK25/RS35 UHF RFID reader. Users can customize settings to best fit their individual needs. It allows the users to change UHF RFID parameters through Scan Settings. By Filter, users have the option to include or exclude certain data from tags. It also has multiple working modes to provide maximum flexibility. The Multi-tag Mode allows the device to power save and read large amount of tags in high speed which is perfect for warehouse inventories. It allows the device to read multiple types of tags in stores while filtering repeated tags for accurate replenishments. Users can also define their own settings in five other profiles to freely switch between different applications.



Users can easily utilize Read, Write and Lock functions of RK25/RS35 UHF RFID reader through EZEedit. The Lock function provides security by limiting the reading and writing of information on tags. With the Inventory function, users can scan multiple RFID tags and get the results of total reads and unique tags. Users can utilize Tag Locating to pinpoint and identify the location of a specific tag through beeping sounds while the volume indicates how close or far the tag is.

# RK25/RS35 UHF RFID READER



Physical characteristics	Compatible host	CipherLab RK25 mobile computer	CipherLab RS35 mobile computer
	Communication	Electrical 8-pin connection	
	Dimension	Without RK25 : 152.4 mm x 85.3 mm x 158.8 mm With RK25 : 181.4 mm x 85.3 mm x 162.9 mm	Without RS35: 156.2 mm x 92.8 mm x 186.3 mm With RS35: 199.4 mm x 92.8 mm x 186.3 mm
	Weight	Without RK25 : 353.4 g With RK25 : 632.7 g	Without RS35: 366 g With RS35: 655 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 R2000 high performance UHF RFID chipset solution	
	Antenna	Circularly polarized	
	Fastest read data rate *1	700 <sup>+</sup> tags / sec	900 <sup>+</sup> tags / sec
	Multi tags read data rate*2	500 <sup>+</sup> tags/sec	600 <sup>+</sup> tags/sec
	RF power level	5-30, 26 steps	
	Nominal read range*1	+8 m (+26 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 IN : 865.7~866.9 MHz	
User environment		Morocco: 867.7~867.9 MHz	TH(Thailand): 920-924 MHz
	Drop	1.2m (With RK25)	1.2m (With RS35)
	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 RK25 data terminal)	Full charged time approximate 6 hrs (charge with RS35 data terminal)
	ESD	± 15kV air discharge / ± 8kV contact discharge	
Software	EMC	CE, FCC, NCC, IC, JRL, Telec, EAC, RCM, WPC	CE, RCM, FCC, NCC, IC, JRL, EAC, NBTC, WPC
		RFID Android Software Development Kit	
		EZConfig with filter repeated tags	
Accessories		EZEdit	
		Battery, Battery charger	
Warranty		1 year	

1. 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.

## ACCESSORIES



Battery charger



Battery

**Kreski**

Zapraszamy do kontaktu!  
Więcej informacji: [www.kreski.pl](http://www.kreski.pl)



**HEADQUARTERS**  
CipherLab Co., Ltd.  
12F, 333 Dunhua S. Rd., Sec.2  
Taipei, Taiwan 10669  
Tel +886 2 8647 1166  
Fax +886 2 8732 3300  
[www.cipherlab.com](http://www.cipherlab.com)

**CipherLab Electronics Trading**  
(Shanghai) Co., Ltd.  
E Room, 9F, No. 726 West Yan'an Rd.  
Changning District, Shanghai China 200050  
Tel +86 21 3368 0288  
Toll Free +86 400 920 0285  
Fax +86 21 3368 0286

**CipherLab USA Inc.**  
2552 Summit Ave. STE 400  
Plano, Texas 75074, USA  
Tel +1 469 241 9779  
Toll Free +1 888 300 9779  
Fax +1 469 241 0697

**CipherLab Europe**  
Cahorslaan 24, 5627 BX  
Eindhoven, The Netherlands  
Tel +31 (0) 40 2990202