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RK25 UHF RFID Reader

RK25 UHF RFID READER

A Simple Snap Increases Efficiency and Productivity to the Max

Modular design. Simply attach the RK25 onto the RK25 UHF RFID reader.

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

Long battery life. The battery of RK25 can power RFID reader when the battery of RFID reader drains out.

UHF RFID reader battery status

RK25 battery status

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

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.

Tag Locating

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

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.

Lock/Unlock

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

High performance RFID reading capability. Reads 700⁺ tags / per second with a reading range over 8 meters.

700⁺ tags / per second

8⁺ meters

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

Upgradeable Functions with the RK25 UHF RFID Reader

CipherLab's RK25 UHF RFID reader is specially made to upgrade your RK25 functions. With the RK25 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 UHF RFID reader also has the long lasting power to sustain a full working day. Combined that with great software support, the RK25 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 mobile computer onto the RK25 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 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 EZEdit to control reading by a software trigger on the RK25 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 RK25 UHF RFID reader provides the best-in-class RFID reading sensitivity and performance. The RK25 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 has the high-speed ability to read over 700 tags per second with a reading range of over 8 meters. 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

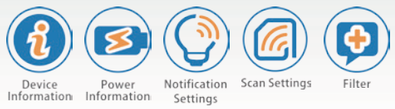
The RK25 UHF RFID reader inherited CipherLab's rugged mobile device designs so users can operate it without worry. It features IP54 ruggedized design which prevents infiltration of dust and water. It passes a 1.2-meter drop resistance test to withstand occasional and accidental drops in all kinds of 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 slimline 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 RK25's 4,000 mAh battery 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 and RFID reader on the top right and left corners of the RK25 screen. Users can flexibly charge the RFID reader while connected to the RK25 by using the RK25 charging cradle or Snap-On cable. Users can also hot swap the battery of RK25 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 EZEdit. 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 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. The Comprehensive Mode allows the device to read multiple types of tags in stores while auto filtering duplicated 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 UHF RFID reader through EZEdit. 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 UHF RFID READER

UHF RFID | Pin connector | IP54 | 1.2M MUTIPLE DROPS

Physical characteristics	Compatible host	CipherLab RK25 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
	Weight	Without RK25 : 353.4 g With RK25 : 632.7 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
	Max data rate[1]	700+ tags / sec
	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 Morocco: 867.7~867.9 MHz
User environment	Drop	1.2m (With RK25)
	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)
	ESD	± 15kV air discharge / ± 8kV direct discharge
	Certificate	CE, FCC, NCC, IC, JRL, Telec, EAC, RCM, WPC
Software	RFID Android Software Development Kit, EZConfig, EZEdit	
Accessories	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

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