



# ALR-S350 SLED HANDHELD

UNIVERSAL MOBILE RFID WITHOUT THE HASSLE

The ALR-S350 is a robust, easy to implement UHF passive RFID sled, designed for all-day use. The ALR-S350's sled characteristics provide the ability to use your preferred operating system type and version, while enabling access to the latest generation communications infrastructure.

## FEATURES

- Supports Apple iOS® and Google Android® via Smart Device
- Enables LTE and 802.11ac/ad via Smart Device\*
- ETSI 865.6–867.6 MHz or FCC/IC 902–928 MHz
- ERP 2W/EIRP 3.3W
- 2D imager supporting all major 1D / 2D barcodes
- Ergonomic 350 g / 12.3 oz
- Robust Quad Lock® physical smart device connection
- Bluetooth Low Energy communications to Smart Device



## APPLICATIONS

- Retail
- Warehouse
- Work in Progress
- Transportation
- Missing item location

Feature	Enabled By	Benefit
<b>Long battery life</b>	<ul style="list-style-type: none"> <li>• Double-capacity single battery</li> <li>• Low power electronics</li> </ul>	<ul style="list-style-type: none"> <li>• Up to 24 hours of intensive use</li> </ul>
<b>Robust Design</b>	<ul style="list-style-type: none"> <li>• Dust and water ingress protection (IP54)</li> <li>• Solid drop tested design (1.5m/4,9ft)</li> <li>• Quad Lock® robust phone mounting</li> </ul>	<ul style="list-style-type: none"> <li>• Robust to normal knocks and drops despite being a sled form-factor</li> </ul>
<b>Simple to use</b>	<ul style="list-style-type: none"> <li>• Effortless Bluetooth 4.2 (Low Energy) connectivity</li> <li>• Single battery operation - only one battery to manage</li> </ul>	<ul style="list-style-type: none"> <li>• Simple smart device pairing</li> <li>• No battery swapping required for full day use</li> <li>• Dual battery systems may not operate when one of the batteries is weak</li> </ul>
<b>Operating System and Communications Technology Agnostic</b>	<ul style="list-style-type: none"> <li>• Sled design splits RFID from Comms and O/S</li> <li>• Download Apps from the Apple App Store or the Google Play Store</li> </ul>	<ul style="list-style-type: none"> <li>• Use Android or iOS</li> <li>• Use LTE of next gen 5G services</li> <li>• Use latest WiFi 802.11ac, ad etc</li> <li>• Use a phone, tablet or media player (e.g. iPod Touch)</li> </ul>

\* Features may vary depending on Smart Device specifications



## ALR-S350 UHF Passive RFID Sled

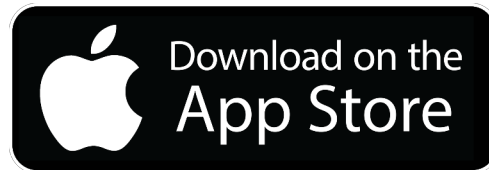
Universal Mobile RFID without the Hassle

Unlike competitive sled units, the Alien ALR-S350 comes with everything required to begin use. All the user needs to provide is the phone, tablet, or a simple media player such as an iPod touch. Included are:

- ALR-S350 RFID sled
- Li-Po double capacity 7000mAh 3.7V battery
- Multi-national power adapter/charging kit
- Cradle/dock with spare battery charging slot
- Micro USB cable for charging your smart device when the ALR-S350 is docked and charging



To get started, simply visit the appropriate App Store for your device and download the Alien RFID Application, pair your device and you are ready.





## RFID

Feature	Description
<b>Standards</b>	ISO 18000-63 (EPC Class 1 Gen2v2) AES authentication in accordance with ISO/IEC 29167-10 supported
<b>Frequency</b>	ETSI 865.6–867.6 MHz or FCC/IC 902–928 MHz
<b>RF Power</b>	ERP 2W/EIRP 3.3W
<b>Antenna features</b>	Software controlled antenna modes: linear (horizontal & vertical), circular and proximity Nominal reading distance: Linear polarization mode 7 m/22 ft (crossed dipole)
<b>Read Speed</b>	Up to 200 tags per second

## Bar Code

Feature	Description
<b>2D Imager</b>	All major 1D barcodes and 2D codes High visibility LED aimer 2 character pre and post fixes, padding, replacement Enhanced aiming mode (automatic switching between scan line / aiming dot) Configurable scan alert sounds

## User Interface

Feature	Description
<b>Keys</b>	Power and Unpair a Bluetooth device Trigger button
<b>User Feedback</b>	3 LEDs and buzzer

## Communications

Feature	Description
<b>Wireless PAN</b>	Bluetooth 4.2 (Low Energy) Class 2 Supported profiles: GATT, HID

## Power

Feature	Description
<b>Battery</b>	Rechargeable, removable Lithium-Ion battery pack 7000 mAh, 3.7V
<b>Charging of S350</b>	Charging in cradle (0 to 100 %) 5 h Charging over micro USB connector (0 to 100 %) 5–10 h
<b>Charging of host</b>	Charging from cradle via USB cable (4–7W) based on charge level of ALR-S350 battery
<b>External power supply</b>	AC adapter for desktop charger: input 100–240 VAC, 0.6 A, 50-60 Hz / output 5.2 VDC, 3 A, 15 W / Power adapter for EU, UK or US



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### Size and Weight

Feature	Description
<b>Dimensions</b>	(H) 196 x (W) 83/91 x (D) 21/135 mm (H) 7.7 x (W) 3.3/3.6 x (D) 0.8/5.3 inch
<b>Weight</b>	350 g / 12.3 oz (without battery) 500 g / 17.6 oz (with battery)

### Drop and Shock

Feature	Description
<b>Drop &amp; Impact</b>	1.5m / 4.9ft
<b>ESD</b>	Contacts +/- 4KVdc Air discharge +/- 8KVdc

### Environmental

Feature	Description
<b>Temperature</b>	Operating -10 to +55 °C +14 to +131°F
	Storage -20 to +60 °C -4 to +140°F
	Charging 0 to +45°C +32 to +113°F
<b>Relative Humidity</b>	10 % to 95 % non-condensing
<b>Fastening</b>	Quad Lock®





# ALR-S350 UHF Passive RFID Sled

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## Ordering Information

Model Number	Countries	Frequency	Transmit Channels	Channel Spacing	RF Power	Compliance Certification
ALR-S350-USA	USA, Canada	902 - 928 MHz	50	500 KHz	1 Watt	Emissions: FCC Part 15 Safety: cTUVus tested to: CAN/CSA-C22.2 No.60950-1-03, and UL 60950-1:2007 specifications IEC 60950-1 and EN60950-1
ALR-S350-EMA	Europe	865.6 - 867.6 MHz	4	600 KHz	1 Watt	RED: 2014/53/EU EMC: 2014/30/EU LVD: 2014/35/EU RoHS: 2011/65/EU

## Accessory Ordering Information

Model Number	Description
ALX-540	Docking Station & International Power Supply for ALR-S350
ALX-541	Quad Lock® Connector for smart devices
ALX-542	Replacement battery for ALR-S350



ALX-542 (one included in base SKU)



ALX-540 International PSU & Dock (included in base SKU)



ALX-541 Quad Lock® smart device connector

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HANDLING PRECAUTIONS Observe standard handling practices to minimize ESD.

DISCLAIMER Application recommendations are guidelines only - actual results may vary and should be confirmed. This is a general purpose product not designed or intended for any specific application.

This product is covered by one or more of the following U.S. patents: 7716208, 7716160, 7688206, 7671720, 7659822, 7619531, 7615479, 7598867, 7580378, 7576656, 7562083, 7561221, 7559486, 7559131, 7554451, 7411503, 7385284, 7377445, 7364084, 7353598, 7342490, 7324061, 7321159, 7301458, 7295114, 7288432, 7265675, 7262686, 7215249, 7214569, 7199527, 7193504, 7173528, 7172910, 7172789, 7141176, 7113250, 7101502, 7080444, 7070851, 7068224, 7046328, 6998644, 6988667, 6985361, 6980184, 6970219, 6952157. Other patents pending.

This product is licensed under patents of Round Rock Research, LLC, for use solely with UHF RFID Readers (such as Alien reader products) that are licensed under an agreement with Round Rock Research, LLC.



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