ALR-S350 Sled Handheld

Universal Mobile RFID without the Hassle

The Alien Technology(R) ALR-S350 UHF Passive sled:

- Enables access to latest high speed communication infrastructure
- Provides ability to use iOS(R) or Android(R) mobile devices
- Designed For All-Day Use

FEATURES

- Supports Apple iOS® and Google Android® via Smart Device
- Enables LTE and 802.11ac/ad via Smart Device*
- Available for ETSI, India & FCC Operation
- 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
Long battery life	• Double-capacity single battery • Low power electronics	• Up to 24 hours of intensive use
Robust Design	• Dust and water ingress protection (IP54) • Solid drop tested design (1.5m/4,9ft) • Quad Lock® robust phone mounting	• Robust to normal knocks and drops despite being a sled form-factor
Simple to use	• Effortless Bluetooth 4.2 (Low Energy) connectivity • Single battery operation - only one battery to manage	• Simple smart device pairing • No battery swapping required for full day use • Dual battery systems may not operate when one of the batteries is weak
Operating System and Communications Technology Agnostic	• Sled design splits RFID from Comms and O/S • Download Apps from the Apple App Store or the Google Play Store	• Use Android or iOS • Use LTE of next gen 5G services • Use latest WiFi 802.11ac, ad etc • Use a phone, tablet or media player (e.g. iPod Touch)

* Features may vary depending on Smart Device specifications

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
Standards	ISO 18000-63 (EPC Class 1 Gen2v2) AES authentication in accordance with ISO/IEC 29167-10 supported
Frequency	See table for specific model region
RF Power	See table for specific model region
Antenna features	Software controlled antenna modes: linear (horizontal & vertical), circular and proximity Nominal reading distance: Linear polarization mode 7 m/22 ft (crossed dipole)
Read Speed	Up to 200 tags per second

Bar Code

Feature	Description
2D Imager	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
Keys	Power and Unpair a Bluetooth device Trigger button
User Feedback	3 LEDs and buzzer

Communications

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

Power

Feature	Description
Battery	Rechargeable, removable Lithium-Ion battery pack 7000 mAh, 3.7V
Charging of S350	Charging in cradle (0 to100 %) 5 h Charging over micro USB connector (0 to 100 %) 5–10 h
External power supply	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

Size and Weight

Feature	Description
Dimensions	(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
Weight	350 g / 12.3 oz (without battery)
	500 g / 17.6 oz (with battery)

Drop and Shock

Feature	Description
Drop & Impact	1.5m / 4.9ft
ESD	Contacts +/- 4KVdc
	Air discharge +/- 8KVdc

Environmental

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

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	4W EIRP	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	2W ERP	RED: 2014/53/EU EMC: 2014/30/EU LVD: 2014/35/EU RoHS: 2011/65/EU
ALR-S350-IND	India	865.6-867.0 MHz	3	600 KHz	2W ERP	Emissions: EN 302-208-2,EN 301-489. Safety: IS 13252 (Part 1) / IEC 60950-1
ALR-S350-JP3	Japan	916-921 MHz	4	1200 KHz	4W EIRP	ARIB STD-T106

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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