

ANDROID CONNECTED HANDHELD RFID READER

The Alien Technology[®] commercial class ALR-H450 "connected" **Android** handheld readers enables users to deploy manageable, robust, best-in-class EPC Gen 2 RFID solutions for supply chain, manufacturing, and asset management applications.

FEATURES

- QWERTY keyboard, rugged yet lightweight for ease of use
- Ergonomic design provides superior user comfort and use
- "Connected" via the full set of wireless networking
- IP64 sealing for dust and water resistance

• **Prolonged usage** capabilities provided by a 3,200 mAh main lithium polymer main battery pack and 5,200 mAh gun handle battery

ALR-H450

• Android 4.4 (Kit Kat)

Benefit	Enabled By:	What does this mean to me?
Ease of Use	 Full QWERTY keyboard Dual high-power lithium-polymer batteries Open source Android software development 	Simplifies data inputAll day usage without rechargingEasy to provide custom apps
High Performance	 Unique high-performance, high gain antenna (unusual for a handheld) Quad-core 1.3GHz CPU's 	 Reads tags further than most handheld RFID solutions Reads and processes those tags faster Runs Android apps faster
A fully "connected" handheld	 WiFi 802.11 b/g/n 3G cellular built in Bluetooth 4.0 	 Wireless simplicity Always connected Allows connection to corporate networks



Robust Compact/Connected Android Based Handheld

This feature-rich reader is packaged in a compact ergonomic footprint, yet comes with a full QWERTY keyboard for onthe-go data-entry and while displaying results on the large 4" WVGA crisp touch panel display.

The solution provides an easy-to-integrate, easy-to-manage package in an open source Android environment.

A number of techniques including shock-resistance rubber seals are used to ensure durability resulting in an IP64 water/ dust proof rating and a 1.0m/ 3ft drop qualification.

High Performance Antenna

The ALR-H450 delivers exceptional performance with best-inclass receive sensitivity and enhanced interference rejection enabled partly be an unusually high performance 4dBic antenna.



The ALR-H450 comes well featured including 2D bar code capability and WiFi connectivity to your corporate network. A memory expansion slot is standard for flexibility for additional local storage.

Standard features include:

- 1D and 2D bar code reader
- Bluetooth/WiFi
- GPS (for location aware applications)
- 3G cellular connectivity for use beyond corporate WiFi areas
- 1/2 Watt speaker
- Microphone
- Light sensors, proximity sensors and G-sensors
- Micro-SD expansion slot

All units are offered in regional frequency options including "US," "Europe", "China" and others

Baseline Specification	ALR-H450
RFID Reader	EPC C1 GEN2 / ISO18000-6C
RFID Power	1W (+5dBm to +30dBm)
Antenna	1diL / 4 dBic (Circular)
Scanner	2-D bar code (1280 x 960 pixels)
WLAN	Wireless WLAN 802.11 b/g/n
WWAN	WCDMA/HSDPA/HSPA+ (850/1900/2100MHz) GSM/GPRS/EDGE (850/900/1800/1900MHz) 1 PSAM + 1 SIM
WPAN	Bluetooth v2.1+EDR, v3.0+HS and v4.0
Location Services	GPS (embedded A-GPS)
Communications	Micro USB
Operating System	Android 4.4.2 (Kitkat)
Display	4" TFT-LCD touch screen with backlight, 16.7M colors, 480 \times 800 (WVGA)
CPU	Cortex-A7 1.3GHz quad-core
Memory	1GB RAM / 4GB Flash
Memory Expansion	MicroSD (32GB Max)
Battery (lithium polymer)	Main 3.7V, 3200 mAh Gun 3.7V, 5200 mAh
Expansion Slot	1 Micro SD slot, 1 SIM slot, 1 PSAM slot





High Performance, Easy to Use, Easy to Manage, Easy to Deploy

Physical Characteristics	
Ingress Protection	IP64
ESD	Contact ± 4KV / ± Air 8KV
Humidity	0-95% at 40°C / 104°F
Operating Temp	-10°C to 50°C / 14°F to 122°F
Storage Temp	-40°C to 70°C / -40°F to 158°F
Weight	371 g / 13.1 oz (no batteries) 448 g / 15.8 oz (with main battery) 623 g / 22.0 oz (with gun handle and all batteries)
Dimensions without gun handle	7.28" (L) x 3.35" (W) x 4.13" (H) 185 mm (L) x 85 mm (W) x 105 mm (H)
Drop	1 meter / 3.28 feet

Ordering Information	ALR-H450 (US FCC)	ALR-H450-EMA (Europe)	ALR-H450-CHN (China)
Frequency	902 MHz – 928 MHz	865.7 MHz – 867.5 MHz	920.625 MHz – 924.375 MHz
Transmit Channels	50	4	16
Channel Spacing	500 KHz	600 KHz	250 KHz
RF Power	1 Watt	1 Watt	1 Watt
Compliance Certification	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	Emissions: ETSI EN 302-208-2 (4 channel plan), EN 301-489. Safety: EN 60950, EN 50364.	Emissions: CMII Safety: IEC 60950-1:2005 2nd edition & CCC

Accessories Included		
Ordering Information	Description	
ALX-520	ALR-H450 Pistol Grip	
ALX-521	ALR-H450 Pistol Grip Battery	
ALX-522	ALR-H450 Flat Main Body Battery	
ALX-523	ALR-H450 Break-out Connector	
ALX-524	ALR-H450 Dock	
ALX-525	ALR-H450 USB Cable	
ALX-526-1	ALR-H450 Power Adapter US (In US kit ALR-H450 only)	
ALX-526-2	ALR-H450 Power Adapter Europe (In Europe kit ALR-H450-EMA only)	
ALX-526-3	ALR-H450 Power Adapter China (In China kit ALR-H450-CHN only)	

Copyright© 2016 Alien Technology LLC. All rights reserved. Alien, Alien Technology, the Alien Technology logo, Spider, Higgs, Dynamic Authentication, QuickWrite, BlockWrite, Squiggle, and the Squiggle logo are trademarks or registered trademarks of Alien Technology Corporation in the U.S. and other countries.

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 produce is covered by once or more of the following U.S. patents: 7716208, 7716160, 7688206, 7671720, 7659822, 7619331, 7615479, 7598867, 7580378, 7576656, 7562083, 7561221, 7559486, 7559131, 7554451, 7411503, 7385284, 7377445, 7364084, 7335398, 7342406, 7231193, 7324061, 7321193, 7314585, 7295114, 7284322, 7265675, 7262086, 7215249, 7214509, 7199527, 7193504, 7173528, 71773528, 7172789, 714176, 7113250, 7101502, 7080444, 7070851, 7068224, 7046328, 6998644, 6988667, 6985361, 6980184, 6970219, 693157, 6741760, 7211976, 7113258, 7114176, 7113250, 7101502, 7080444, 7070851, 7068224, 7046328, 6998644, 6988667, 6985361, 6980184, 6970219, 693157, 6741760, 744176, 7113258, 7114176, 7113259, 7101502, 7080444, 7070851, 7068224, 7046328, 6998644, 6988667, 6985361, 6980184, 6970219, 693157, 69



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.



Alien Technology 845 Embedded Way. San Jose, CA 95138 www.alientechnology.com

Legacy Technology Services

We Rent & Sell All Types Of Barcode Equipment

Call now to talk to an expert 866-271-9891

About us

- Legacy Technology Services is a leading nationwide provider of mobile computing, barcode, printers and point of sale equipment and services.
- For over a decade, thousands of clients across North America have trusted us to provide equipment from leading manufacturers backed by the services to support them.

Latest Hardware from top manufacturers

• Legacy handles virtually every major manufacturer of mobile computing, barcoding and point of sale equipment.

Expert Repair and Maintenance services

· Legacy is one of the best repair facilities in North America

Discontinued product sourcing

• They don't make it anymore? Our inventory also includes manufacturer close-outs and discontinued equipment to support our clients legacy infrastructure.

Trade-in and Disposal services

- That old equipment laying around your facility may still have some value. Legacy routinely purchases equipment from our clients around the globe.
 - Data destruction
 - · Hardware disposal
 - Auditing services

Dedicated client account team

• Dedicated, highly trained account managers are here to answer all your questions and provide top notch service.

Equipment rental services

• Sometimes renting is a better solution, Legacy's huge rental inventory provides the equipment you need for temporary needs and projects.





<u>Legacy, Inc.,</u> 160 West Road, Ellington, CT 06029

Toll Free: 866-271-9891 Fax: 888-522-4684

www.LegacyGlobal.com

Some brands we carry







Honeywell













