



ANDROID CONNECTED HANDHELD RFID READER

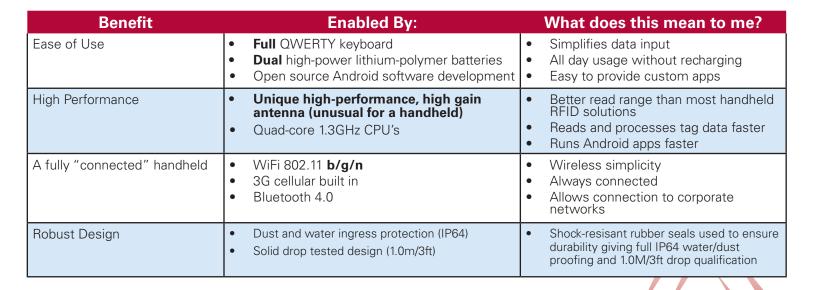
The ALR-H450 is a robust "connected" **Android** handheld reader enabling users to deploy manageable world class GS1 Gen 2 RFID solutions for supply chain, manufacturing, and asset management applications.

FEATURES

- Full QWERTY keyboard allows easy data entry
- 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 design provides superior user comfort and use
- Supports Wi-Fi, Bluetooth and 3G cellular connectivity
- **Robust** IP64 sealing for dust and water resistance
- **Prolonged usage** enabled by 3,200 mAh main Li-Po main battery pack and 5,200 mAh gun handle batteries
- Android 4.4 (Kit Kat) OS

APPLICATIONS

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









Fully featured and ready to use out of the box, ALR-H450 comes equipped with a 1D / 2D bar code scanner and WiFi connectivity for ease of connetion to your corporate network. A microSD memory expansion slot is included for additional local storage.

Features included are:

- 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	1dBiL / 4 dBic (Circular)	
Scanner	2-D bar code (752 x 480 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	

* Due to country specific regulations the cellular modem (WWAN) is not present in units for Singapore or Brazil





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				

Model Number	Countries	Frequency	Transmit Channels	Channel Spacing	RF Power	Compliance Certification
ALR-H450	USA, Canada, Colombia, Mexico, Puerto Rico	902 - 928 MHz	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, IFETEL
ALR-H450-ARG **	Argentina					
ALR-H450-BRA *	Brazil	902 - 907.5MHz & 915-928 MHz	35	500KHz	1.3 W EIRP	ANATEL Agência Nacional de Telecomunicações
ALR-450-CHN	China	920.5 - 924.5 MHz	16	250 KHz	1 Watt	Agência Nacional
ALR-450-CHN-M *	Singapore	920.5 - 924.5 MHz	16	250 KHz	1 Watt	de Telecomunicações
ALR-H450-EMA	Europe, South Africa, UAE	865.6 - 867.6 MHz	4	600 KHz	1 Watt	Emissions: ETSI EN 302-208-2 (4 channel plan), EN 301-489, ICASA Safety: EN 60950, EN 50360, NRCS
ALR-H450-RSA	South Africa	915.4 - 919 MHz	17	200KHz	4W EIRP	Emissions: ICASA Safety: NRCS
ALR-H450-WR1	Hong Kong	920 - 925 MHz	8	500 KHz	4W EIRP	OFTA

* Due to country specific regulations the cellular modem (WWAN) is not present in units for Singapore (the "-M" signifies no Cellular Modem) and Brazil
** Ships into the country without a power supply (needs to be sourced in country)



The following accessories are included in the ALR-H450 package.

Replacements and additions may be purchased separately using the order numbers indicated below.

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 with USB On-The-Go Support (OTG). OTG supports the Plugable USB 2.0 OTG Micro-B to 10/100 Network Adapter (not supplied) <u>http://plugable.com/products/usb2-otge100</u>			
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)			



ALX-524

ALX-526

The ALX-526 does not ship to Argentina and Brazil has a different model number.



Distribuited by

SOFTWORK SrL Via Zanardelli, 13/A 25062 Concesio (BS) Italy Tel. +39 030 200 81 49 www.rfidglobal.it



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

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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

of the following U.S. patents: 7716208, 7716160, 7688206, 761720, 7659822, 7619531, 7615479, 7598867, 7580378, 7576656, 7562083, 7561221, 7559486, 7559131, 7554451, 7411503, 7385284, 7377445, 7364084, 7353598, 7295114, 7288452, 7265675, 7262686, 7215249, 7214528, 6998644, 6988667, 6985361, 6980184, 6970219, This product is covered by one or more 7342400, 7324061, 7321159, 7301458, 6952157. Other patents pending.

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