



# ALR-9680

## COMMERCIAL 4-PORT RFID READER

Rapidly deploy RFID with the Alien® ALR-9680 commercial UHF reader with enterprise class 4-port flexibility and Alien reader “intelligence”



US Models now come with a 2 year warranty

- Feature-rich Alien Reader Protocol
- 4 mono-static reader ports
- POE eliminates cost of AC power drop
- EPC Gen 2 dense reader interoperable
- Slim form-factor for installation in height-restricted places
- Manageable and upgradable

Benefit	Enabled By:	What does this mean to me?
Ease of use	<ul style="list-style-type: none"> <li>• Four antenna port flexibility</li> <li>• Alien Reader Protocol</li> <li>• Smart reader/autonomous mode</li> </ul>	<ul style="list-style-type: none"> <li>• Easy to set up and deploy</li> <li>• No additional costly controllers</li> <li>• Less maintenance and overhead</li> </ul>
Low set-up and running cost	<ul style="list-style-type: none"> <li>• Alien Reader Control Architecture &amp; Ruby</li> <li>• Power-over-Ethernet (PoE)</li> <li>• Remote firmware management</li> </ul>	<ul style="list-style-type: none"> <li>• Minimizes network infrastructure</li> <li>• Works in areas with no power</li> </ul>
Robust yet fits narrow vertical locations	<ul style="list-style-type: none"> <li>• Robust metal chassis</li> <li>• 1 ¼" tall</li> <li>• All cables on single side</li> </ul>	Usable in: <ul style="list-style-type: none"> <li>• Physically restricted locations</li> <li>• Locations with limited cabling</li> </ul>

### Simple, Low-Profile, Gen 2 RFID Solution

With Power-Over Ethernet (POE) and out-of-the-box software that is compatible with other Alien readers, the ALR-9680 is a simple, low profile solution that enables users to start reading tags and developing solutions immediately.



### Easy Integration

The ALR-9680 communicates via the easy-to-use Alien Reader Protocol with key RFID platform support including Microsoft® BizTalk RFID, OatSystems, Oracle®, Xterprise and others.

A well-documented SDK featuring .NET, Java and Ruby libraries enables development of custom interfaces to control the reader if desired. The user-friendly Alien RFID Gateway software enables solution development immediately.

### Low System Costs

The cost of installing AC power can sometimes rival that of the reader. The ALR-9680's POE capability allows power to be delivered over properly-equipped local area networks, eliminating expensive AC wiring installation. A POE power injector is provided to supply power if POE is not available. The combination of this capability with up to 4 antenna significantly reduces the cost and complexity of installing an RFID read point.

### Developer Kits

Developer Kits come complete with all the essentials to get started:

- ALR-9680 reader
- A circular polarized antenna
- Software Developers Kit (SDK) (via download)
- Universal power supply
- RS-232 cable
- Ethernet cable
- Sample tags
- Convenient carrying case



# ALR-9680 Commercial 4-Port RFID Reader

Low Profile, Low Overhead, 4-Port RFID Reader Solution

Model Number	ALR-9680	ALR-9680-EMA (Europe, Middle East & Africa)	ALR-9680-CHN (China)
Supported RFID Tag Protocols	EPC Gen 2; ISO 18000-6c		
Reader Protocol	Alien Reader Protocol, firmware upgradable		
LAN Protocols	TCP/IP, NTP, DNS, DHCP, SNMP		
Dense Reader Management	Dense Reader Mode, auto event triggering, event management		
Frequency	902.75 MHz – 927.25 MHz	865.7 MHz – 867.5 MHz	920.625 MHz – 924.375 MHz
Channels	50	4	16
Channel Spacing	500 KHz	600 KHz	250 KHz
RF Power	Max: 4 watts EIRP	Max: 2 watts ERP	Max: 2 watts ERP
Power	24 VDC supplied via an AC/DC power converter or POE (IEEE 802.3af). Unit ships with a Power Sourcing Equipment (PSE) module		
Communications	LAN TCP/IP (RJ-45), RS-232 (DB-9 F)		
Antennas	Four with RTNC connector		
General Purpose Inputs/Outputs	2 inputs, 2 outputs, TTL compatible		
Dimensions	(L) 7 1/4" x (W) 9 1/2" x (D) 1 1/4" without mounting flange (L) 18.41 cm x (W) 24.13 cm x (D) 3.17cm (W) 10 5/8" / 27cm with mounting flange		
Weight	2lbs (0.91 kg)		
Operating Temperature	-20°C to +55°C (-4°F to +131°F)		
LED Indicators	Power, LAN Link, LAN Active, RF On, Read, Fault		
Software SDK	Java, .NET, Ruby APIs		
Vibration	MIL STD 810 514.5C-3 Composite wheeled vehicle profile		
Shock	40 G's Acceleration, 11 ms duration, sawtooth waveform		
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
Warranty	12 months / 2 years*	12 months	12 months

\* For US FCC variant shipped into the Americas only.

Other country variants available - please contact your local Alien representative for price and availability.



## Industry-Leading Reliability

Enjoy the best in technology with confidence. Alien's world-class readers now come standard with a two-year US warranty. Contact your local Alien representative to inquire about specifics.

Copyright © 2014 Alien Technology Corporation. All rights reserved.  
 Alien, Alien Technology, the Alien Technology logo, FSA, Higgs, Dynamic Authentication, Quick-Write, 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 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, 6960184, 6970219, 6952157. Other patents pending.

This product is licensed under patents of Round Rock Research, LLC.

September 16, 2014



1.888.238.1155 • Inside USA  
 1.205.383.2244 • Outside USA  
 info@atlasRFIDstore.com  
 www.atlasRFIDstore.com