



# 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”

- 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

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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.

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