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 .... Low set-up and running cost	• Four antenna port flexibility • Alien Reader Protocol • Smart reader/autonomous mode • Alien Reader Control Architecture & Ruby • Power-over-Ethernet (PoE) • Remote firmware management	• Easy to set up and deploy • No additional costly controllers • Less maintenance and overhead • Minimizes network infrastructure • Works in areas with no power
Robust yet fits narrow vertical locations	• Robust metal chassis • 1¼" tall • All cables on single side	Usable in: • Physically restricted locations • Locations with limited cabling

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 TCPI/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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