

ALR-9650

SMART ANTENNA RFID READER

Alien® ALR-9650 combines reader and circular polarized antenna into a single, simple-to-use, inexpensive and low-profile solution. A second antenna port enables 2-antenna applications.

- Simple, low-profile solution for single antenna applications
- Integrated, high-performance circular antenna only 9"x 9"

- POE eliminates cost of AC power drop
- EPC Gen 2 Dense Reader Interoperable
- Second antenna port enables 2-antenna applications
- Manageable and upgradable

Benefit	Enabled By:	What does this mean to me?
Ease of Use Low set-up and low-running cost	 Integrated antenna 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 Can be set up in areas with no power Small footprint for tidy implementation
Deployable in commercial environment	 Small footprint Integrated antenna Few cables required (e.g. no power cable) Blends into commercial environment 	Space efficientUsable in highly visible locationsNo additional housing required

Simple, Low Profile, Gen 2 RFID Solution

With its integrated antenna, Power-Over Ethernet (POE) and out-of-the-box software compatibility, the ALR-9650 Gen 2 RFID Reader is a simple, low profile solution that enables new users to start reading tags and developing solutions immediately.



Easy to Integrate

The ALR-9650 communicates via the popular 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 easy development of custom interfaces to control the reader if desired. The user friendly Alien RFID Gateway software enables the user to begin solution development immediately.

Low System Cost

The cost of installing AC power can sometimes rival the cost of the reader. The ALR-9650'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 the elimination of the external antenna significantly reduces the cost and complexity of installing an RFID read point.

Small Footprint

The ALR-9650 takes up little space; at only 9 inches square it uses less than half the real-estate of a typical reader and antenna system. Combined with the elimination of messy cables for antennas and power, the ALR-9650 easily fits into a variety of tight spaces and enables neat and tidy placement when it is visible to consumers or the general public.



ALR-9650 Smart Antenna RFID Reader

Complete, Easy-to-manage, Integrated-Antenna RFID Solution

Model Number	ALR-9650	
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 and event management	
Frequency	902.75 MHz – 927.25 MHz	
Channels	50	
Channel Spacing	500 KHz	
RF Power	Max; 4 watts EIRP with internal antenna	
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	LANTCPI/IP (RJ-45), RS-232 (DB-9 F)	
Antennas	One internal, one external port with RTNC connector	
General Purpose Inputs/ Outputs	2 inputs, 2 outputs, TTL compatible	
Dimensions	(L) 9.13" × (W) 9.0" × (D) 2.0"	
Weight	1.0 kg (2.2 lb) max	
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 60950-1:2003 R7.06 specifications IEC 60950-1 and EN60950-1	



Authorized Reseller: RFID4UStore www.rfid4ustore.com 1-408-739-3500 sales@rfid4ustore.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.







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