



## ALR-9780 READER



### FEATURES

- Supports both EPC Class 1 Gen 1 and Gen 2 tags
- Field-tested, widely-supported design
- Network-ready; easy to implement
- Configurable filtering, collection and notification
- Lower cost, single antenna per read-point
- Up to four read points

### Field Tested, Network-Ready, EPC Gen 2 RFID Smart Reader

The ALR-9780 is a field-tested, EPC RFID smart-reader with support for both EPC Class 1 Generation 1 and Generation 2 tags, ensuring easy compliance with evolving retail and government RFID mandates. Mature software support from a variety of vendors ensures rapid integration with enterprise software. Highly configurable and network-ready, the reader meshes with existing LAN configurations and only requires one antenna per read point, resulting in simpler, lower-cost installations.

#### Application Examples

- Industrial warehouses
- Distribution centers
- Logistics facilities
- Manufacturing lines

### EPC Gen 1 and Gen 2 Support

The ALR-9780 provides both EPC Class 1 Gen 1 and Gen 2 support. Field-upgradeable firmware enables ongoing support for popular, EPC Gen 2 compliant tags.

### Field-Tested, Widely-Supported Software Interface

Featuring the powerful and flexible Alien Reader Protocol, the ALR-9780 is supported by a wide range of RFID middleware, WMS and enterprise software platforms. Field-upgradeable firmware ensures easy implementation of upgrades. Software integration is implemented through the use of royalty-free Java and .NET libraries found in a well-documented and complete Software Developer's Kit. Alien RFID Gateway software allows immediate testing and development work to begin.

#### Developer's Kit Includes:

- Hardware Setup Guide
- Reader Interface Guide with API Definitions
- Hardware Technical Specification
- Sample source code
- Royalty-free Java and .NET libraries
- Antennas, tags and accessories
- Alien RFID Gateway test and development software

## PRODUCT SPECIFICATIONS

MODEL: ALR-9780

FREQUENCY:  
902-928 MHz UHF ISM band – FCC certified  
for unlicensed use

RFID PROTOCOL:  
EPC Class 1 Gen 1, EPC Class 1 Gen 2,  
read/write; upgradeable

ANTENNAS:  
4-ports, circular or linear polarization, 6 dBi,  
6 meter cables, reverse polarity TNC

POWER SUPPLY:  
12VDC, 2A (unregulated)

COMMUNICATION INTERFACE:  
RS232; 9-pin, Sub D (female)

LAN INTERFACE:  
10baseT Ethernet

INPUTS/OUTPUTS:  
4 programmable logic I/O

INDICATORS:  
Power, RF, Sniff, Lock

OPERATING TEMPERATURE:  
0°C to +50°C (+32°F to +122°F)

STORAGE TEMPERATURE:  
-20°C to +70°C (-4°F to +158°F)

DIMENSIONS:  
11.98 inches (height )  
9.00 inches (width)  
1.72 inches (depth)

WEIGHT: 4 lbs

## Network Ready and Easy to Configure

The ALR-9780 is easy and inexpensive to install and operate. Configuration is accomplished locally via serial port or remotely via the LAN with XML-packaged commands or a human-readable interface. LAN-friendly, the reader acquires an IP address upon connection and begins issuing a configurable identification heartbeat automatically. Alternatively, the reader can be configured for a static IP address.

With downstream data management in mind, the ALR-9780 comes equipped with a variety of configurable buffering and filtering modes. The routing of tag data delivery and the elimination of redundant tag reads reduces LAN traffic and server loading, saving on overall infrastructure costs. The ability to trigger reads by external event or command allows the reader to confirm to the existing business process, reducing the cost of RFID implementation. Similarly, the reader can be configured to notify operators of tag events by LAN, I/O signal, or even email.

### Configurable Options Include:

- Filtering on whole or partial tag ID
- Elimination of redundant IDs
- Reads triggered by external event or command
- Data configured in XML, ASCII or custom format
- Event notification by LAN, I/O signal, or email

## Single Antenna per Read Point for Low Hardware Cost

The ALR-9780 requires only one antenna per read point. Each antenna serves as both sender and receiver, eliminating the need for costly dual-element antennas and reducing hardware costs by up to several hundred dollars per installation. Smaller, single-element antennas are easier to implement and less likely to be damaged.



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