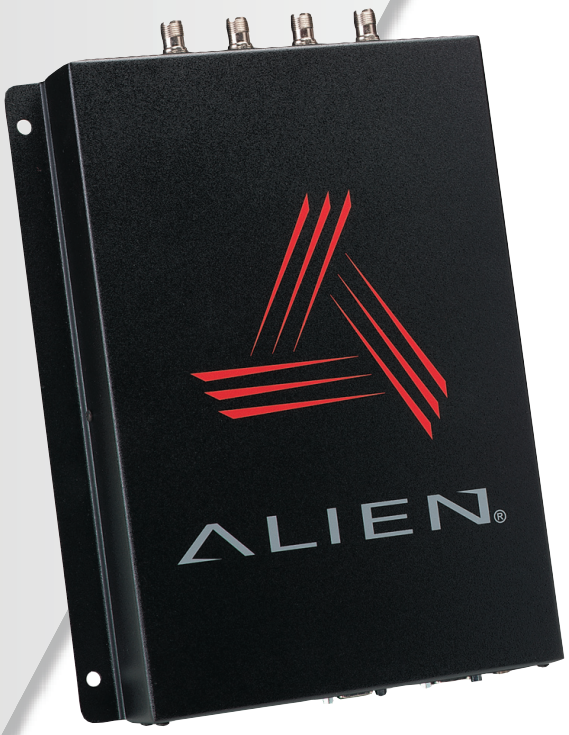
ALR-9780

High Performance, 4-port, EPC Class 1 RFID Reader

The ALR-9780 is a high-performance EPC Class 1 reader/programmer for use in demanding supply-chain applications. Featuring an enhanced DSP-based processor and second generation software, the ALR-9780 delivers:

- Sophisticated Data Handling and Notification for Efficient Management of LAN Resources
- Network-Readiness for Easy Implementation and Management
- Enhanced Sensitivity and High Speed for Thorough Reads
- Upgradeability for Investment Protection



The ALR-9780 fixed reader offers sophisticated, configurable data handling that conserves LAN resources and allows for efficient management of large streams of tag data. Network-ready features enable fast and easy implementation of RFID capability in the distribution center, warehouse or manufacturing floor. Enhanced inventory algorithms ensure fast and thorough reads of large numbers of tags, with a reduction in time-to-last tag of up to 75% over previous models.

Application Examples:

Industrial warehouses
Distribution centers
Logistics facilities
Manufacturing floors

Sophisticated Data-Handling and Notification Features

With downstream data management in mind, Alien® equipped the ALR-9780 with a variety of configurable buffering and filtering modes. The scheduling of tag data delivery and the elimination of redundant tag data reduces LAN traffic and server loading, saving on overall infrastructure costs. The ability to trigger reads by external event, command or schedule allows the reader to mold to the business process rather than the reverse. 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
- Reads triggered by schedule, external event or command
- Scheduled delivery of tag data, with redundant IDs recorded or ignored
- Data configured in XML, ASCII or custom format
- Event notification by LAN, I/O signal, or email

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Easy Implementation and Management

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 and begins issuing an identification heartbeat automatically – just plug it in. Alien RFID Gateway™ software allows immediate testing and development work to begin. Software integration is implemented through the use of royalty-free Java and Visual Basic libraries found in a well-documented Software Developer's Kit. Small, low-cost antennas mount quickly and easily in a variety of locations where larger, more expensive, multi-element antennas do not.

Well-Documented Developer's Kit Includes:

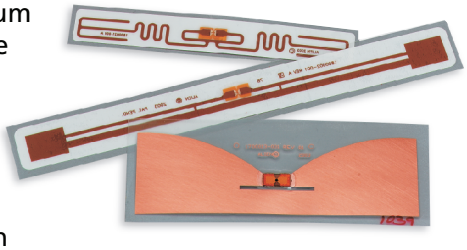
- Hardware Setup Guide
- Reader Interface Guide with API Definitions
- Hardware Technical Specification
- Sample source code
- Royalty-free Java and Visual Basic libraries
- Antennas, tags and accessories

High Speed

Designed for challenging applications, the ALR-9780 reads a large population of tags quickly in real-world situations. Though it captures raw tag data almost twice as fast as previous models, the ALR-9780 achieves an additional real-world performance advantage from unique inventory algorithms that make judicious use of the Class 1 specification to eliminate redundant reads. The ALR-9780 reduces the time-to-last-tag (TLT) during inventories by as much as 75% over previous models.

Enhanced Range and Sensitivity

Fast TLT requires that even the most difficult-to-read tag is acquired. Software-controlled power output provides for the delivery of maximum RF energy to the tags in the field, increasing the likelihood that every tag is on and communicating with the reader. An advanced low-noise RF design provides maximum sensitivity to tags whose signals have been dimmed by distance, moisture or metal. The use of circularly polarized antennas provides the ability to read tags regardless of orientation, enabling the use of inexpensive Class-1 tags.



Easy to Upgrade

With field-upgradeable firmware and a high-performance digital signal processor, the ALR-9780 is designed for maximum upgradeability to future EPC specifications.

Product Specifications

MODEL: ALR-9780

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

RFID PROTOCOL:
EPC Class 1, read/write; upgradable

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: 0C to +50C (+32F to +122F)

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

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

WEIGHT: 4 lbs

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