

ALR-9640



ALIEN.

INTEGRATED EPC CLASS 1 RFID READER AND ANTENNA

The **ALR-9640** is an easy-to-use, fully integrated, EPC Class 1 RFID reader and antenna system for use in applications requiring one or two antennas and up to 20 tags simultaneously in the field.

The ALR-9640 delivers:

- Ease of Installation, Integration and Maintenance for Very Low Total Cost of Ownership
- Flexible Configuration for Seamless Integration With Business Processes
- Sophisticated Antenna Technology for Tag Orientation Insensitivity



The ALR-9640 offers the lowest total cost of ownership RFID system on the market by combining integrated design, simple implementation and easy maintenance. Featuring the same feature-rich API as the ALR-9780, the ALR-9640 is easy to install, integrate and maintain.

Application Examples:

Tag programming stations
Conveyors

EASY TO INSTALL, INTEGRATE AND MAINTAIN

The ALR-9640 fully integrated RFID system eliminates the need for coaxial cables connecting the reader to the antenna. This single system configuration eliminates the risk of cable damage in the most demanding settings. The ALR-9640 also comes equipped with a flexible mounting system to aid in both production and development environments.

The ALR-9640 is easy and inexpensive to install and operate. Operators configure the reader 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 Java, C# and Visual Basic libraries found in a well-documented Software Developer's Kit.

FLEXIBLE CONFIGURATION

The field proven, second generation firmware incorporated into the ALR-9640 provides the flexibility required by today's RFID applications. By utilizing the same control API as Alien's high-performance, four-port readers, the ALR-9640 is enabled 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



SOPHISTICATED ANTENNA TECHNOLOGY

The patented antenna design combines vertical and horizontal modes resulting in tag orientation insensitivity without the reduced range common in circular antennas. This technology enables greater flexibility in tag placement and choice, enabling the use of Class-1 tags instead of more expensive alternatives.

Product Specifications

MODEL: ALR-9460

FREQUENCY:

902-928 MHz ISM band

SPECIFICATION:

EPC Class 1

ANTENNAS:

Single, integrated antenna, featuring patented, dual linear switching operation

POWER SUPPLY:

12VDC, 2.5A (unregulated)

POWER CONSUMPTION:

12 Watts

COMMUNICATION INTERFACE:

RS232; 9-pin, Sub D (female)

COMMUNICATION SETTINGS:

Baud 115200, Data bits 8, Stop Bits 1, Parity None

LAN INTERFACE:

TCP/IP

INPUTS/OUTPUTS:

4 programmable logic I/O

INDICATORS:

RF, Sniff, Lock

OPERATING TEMPERATURE:

-20° to +55°C

STORAGE TEMPERATURE:

-40° to +80°C

DIMENSIONS:

11.5 inches (height) x 8.4 inches (width) x 1.45 inches (depth)

WEIGHT:

1.8 lbs