



## Dock Door Portal Appliance for ALR-9800 and ALR-9780 RFID Readers

The ALX-9000 series of portal appliances provides a complete dock-door solution in a single, rugged package. Steel construction protects sensitive RFID equipment from damage, moisture and dust. Installation is fast, requiring only power and LAN connections. A variety of reader options provide flexibility in implementation.

The appliance houses readers and antennas, eliminating the need to route coax cable outside the cabinet. Sturdy mounting hardware for optional light stacks, presence detectors, relays and other equipment are provided. External connectors for LAN and AC power are provided via top-mounted conduit.

The cabinets are constructed of steel with IP54 moisture and dust resistance to allow use at internal or external doors. Mounted on a heavy steel baseplate, the appliances are designed to withstand rough warehouse environments. An optional, replaceable steel fence deflects glancing blows from vehicles and equipment at floor level.

Installation is fast and simple; only LAN and AC power need to be connected. Four mounting holes in the steel baseplate secure the unit to the floor. A fully-documented software developer's kit is available; however, most middleware vendors already support Alien readers. Both unidirectional and bidirectional versions are available, with adjustable antenna mounts. The unit supports optional light stacks, presence detectors and digital I/O devices.

### Complete Dock Door Solution

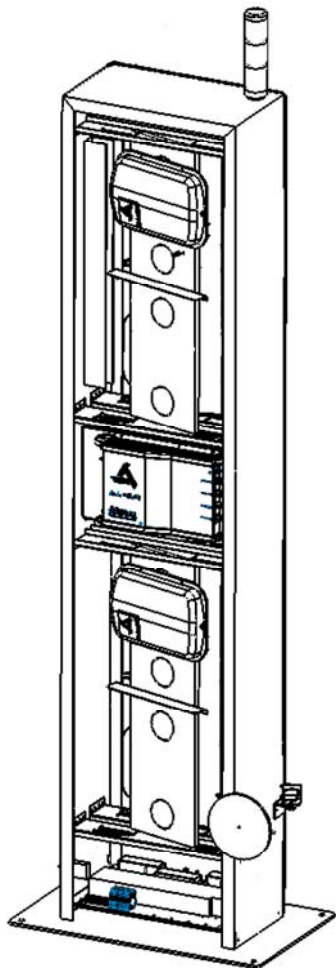
- Fast and easy installation
- Support for Class 1 Gen 2
- Unidirectional and bidirectional options
- Optional light stack, horn and electric eye support
- Optional Wireless LAN
- Optional support for external digital I/O processor
- Adjustable antenna mounts
- Rugged, steel construction

### Gen 2 Compatible Reader Options

Two reader options are available: the ALR-9800 Enterprise RFID Reader, and the ALR-9780 EPC RFID Reader. Both support EPC Class 1 Gen 2 Tags.

The ALR-9800 series multi-protocol reader is enterprise-ready with enhanced management and configuration tools. It provides multiple tools for dense reader environments including Listen-Before-Talk and Dense Reader Mode. Interleaved commands enable top performance for mixed populations of EPC tags, including C0, C1 and C1 Gen 2. The ALR-9780 supports both EPC C1 and C1 Gen 2 tags.

Both readers feature the powerful Alien Reader Protocol™ with Autonomous Mode, which enables interrupt-driven operation and integration with external sensors and actuators.



## Optional Configurations Offer Flexibility

The ALX-9000 series is available in eight base configurations that include readers, antennas, internal power supplies and AC power routing. Options include light stack, electric eye presence detector, and protective steel fence that guards against floor-level impacts. Circularly polarized (-BC) and linearly polarized (-AL) antennas are available.

### Base Model Ordering Information

- ALX-9000, steel cabinet, mounting brackets, without reader
- ALR-9804-PRTL, dual-sided, ALR-9800 and 4 ALR-9610-AL antennas
- ALR-9804-PRTC, dual-sided, ALR-9800 and 4 ALR-9610-BC antennas
- ALR-9802-PRTL, single-sided, ALR-9800 and 2 ALR-9610-AL antennas
- ALR-9802-PRTC, single -sided, ALR-9800 and 2 ALR-9610-BC antennas
- ALR-9784-PRTL, dual-sided, ALR-9780 and 4 ALR-9610-AL antennas
- ALR-9784-PRTC, dual-sided, ALR-9780 and 4 ALR-9610-BC antennas
- ALR-9782-PRTL, single -sided, ALR-9780 and 2 ALR-9610-AL antennas
- ALR-9782-PRTC, single -sided, ALR-9780 and 2 ALR-9610-BC antennas

### Preliminary Specifications

|                   |  |
|-------------------|--|
| Protocol support  | EPC Class 1, Class 1 Gen 2, EPC Class 0, 0+*     |
| Temperature       | Operation.: -20* to 50 C; Storage: -20 to 70 C   |
| RF Output         | 902-928 MHz, 1 Watt                              |
| LAN               | Ethernet, Internet Protocol, optional 802.11 b/g |
| Construction      | 150 mil steel; plastic faceplate                 |
| Dust and Moisture | IP54   |
| Power             | 110AC, 2A, 50-60 Hz                              |
| Safety            | UL 69050*, CSA 22.2/60950* (pending)             |
| Emissions         | FCC 47 CFR Part 15, Canada RS210                 |
| Dimensions        | 84" x 11" x 18"; baseplate: 16" x 26"            |

\*ALR-9800 only. Consult ALR-9800 and ALR-9780 data sheets for details.



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