



ALR-8696-C

LOW VSWR/AXIAL RATIO ANTENNA

The Alien Technology ALR-8696-C is a high-performance, worldwide, circular-polarized antenna for use in demanding applications. The antenna is certified for use with all Alien fixed readers.

FEATURES

- Extremely low VSWR and axial ratio
- Wide band antenna for worldwide applications
- Low Profile
- Weather and UV resistant radome
- 20 ft. cable with reverse polarity TNC connector
- RoHS EU 2002/95/EC compliant

APPLICATIONS

- Warehouses
- Distribution centers
- Airports and hospitals
- Transit terminals
- Conveyer belts

| Benefit | Enabled By: | What does this mean to me? |
|------------------------------------|------------------------------------|--|
| Wide band antenna | 865 - 960 MHz antenna | Single antenna for worldwide usage |
| A thin antenna with no protrusions | Low profile | Enables mounting where objects may otherwise hit or damage a larger antenna |
| Built to keep the elements out | Weather and UV resistant | Designed for a variety of inside and outside applications that demand a robust IP54 antenna |
| Highly efficient antenna | Extremely low VSWR and axial ratio | Read tags in challenging environment and/or at greater distances. Very robust read capability regardless of tag orientation. |



The Alien Technologies ALR-8696-C antenna is a circularly polarized panel antenna that provides reception and transmission of signals in the 865-960 MHz frequency band. The design methodology achieves maximum efficiency and performance across the entire frequency band and tag orientations.

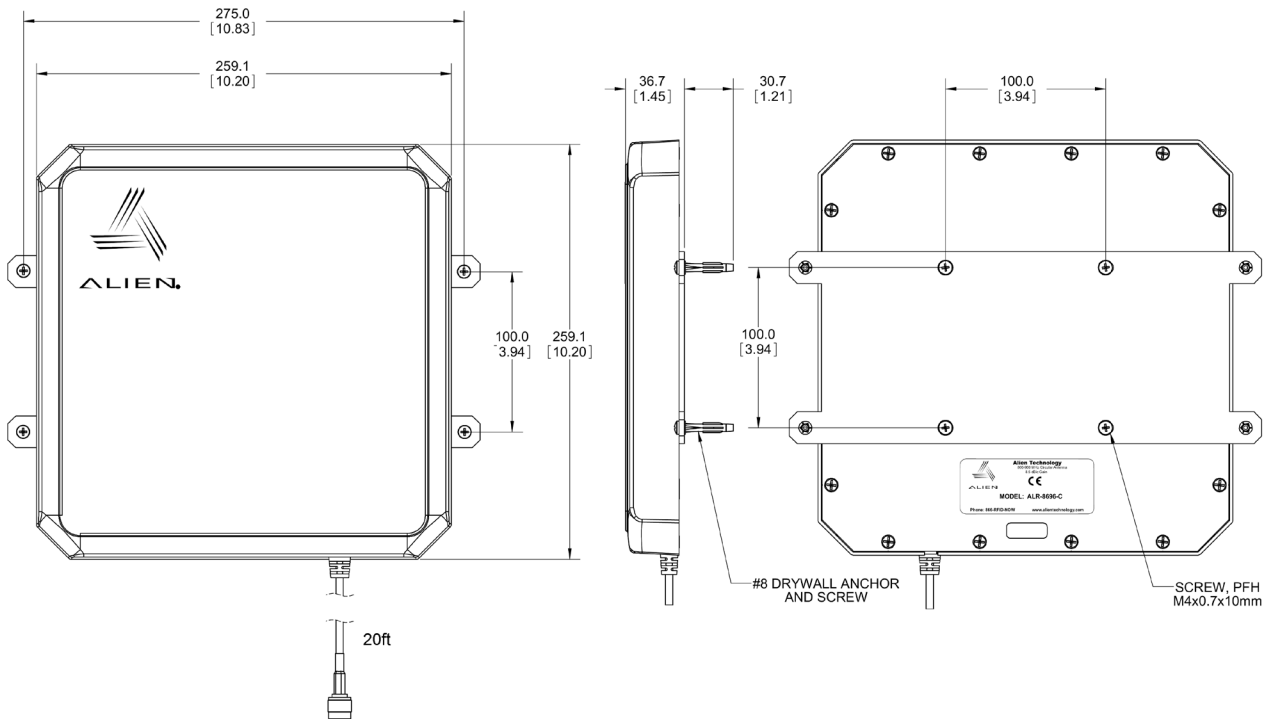
Both VSWR and axial ratios are both excellent and allow the user to achieve the maximum performance for an antenna of this type. The antenna is housed in a heavy duty radome enclosure that can be directly wall mounted.



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| Parameter | Application |
|--------------------------|----------------------------|
| Antenna Part number | ALR-8696-C |
| Frequency Range | 865 - 960 MHz |
| Gain | 8.5 dBic |
| Maximum VSWR | 1.4:1 |
| 3 dB Beamwidth - Azimuth | 65° |
| Front to Back Ratio | 20 dB |
| Polarization | Circular Right-hand |
| Maximum Input Power | 2 Watts |
| Input Impedance | 50 ohms |
| Axial Ratio | 1.2dB |
| Weight (Kg) | 2.5 lbs (1.13) |
| Mechanical Size | 10.2" x 10.2" x 1.32" |
| Antenna Connection | Coax Pigtail, Rev TnC Male |
| Radome | High Strength PC |
| Mount Style | 100mm VESA mounting plate |
| Temperature operational | -25°C to +70°C |
| Lightning Protection | DC Grounded |
| Environmental Rating | IP 54 |



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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.

This product is covered by one or more of the following U.S. patents: 7716208, 7716160, 7688206, 7671720, 7659822, 7619531, 7615479, 7598867, 7580378, 7576656, 7562083, 7561221, 7559486, 7559131, 7554451, 7411503, 7385284, 7377445, 7364084, 7353598, 7342480, 7324061, 7321159, 7301458, 7295114, 7288432, 7265675, 7262886, 7215249, 7214569, 7199527, 7193504, 7173528, 7172910, 7172789, 7141176, 7113250, 7101502, 7080444, 7070851, 7068224, 7046328, 6998644, 6988667, 6985361, 6980184, 6970219, 6952157. Other patents pending.

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