



Product Family | Circularly Polarized RFID Antenna (902-928 Mhz)  
Product Code | VUL-PAL90209H-FNF

# PAL90209H

## OUTDOOR RFID ANTENNA

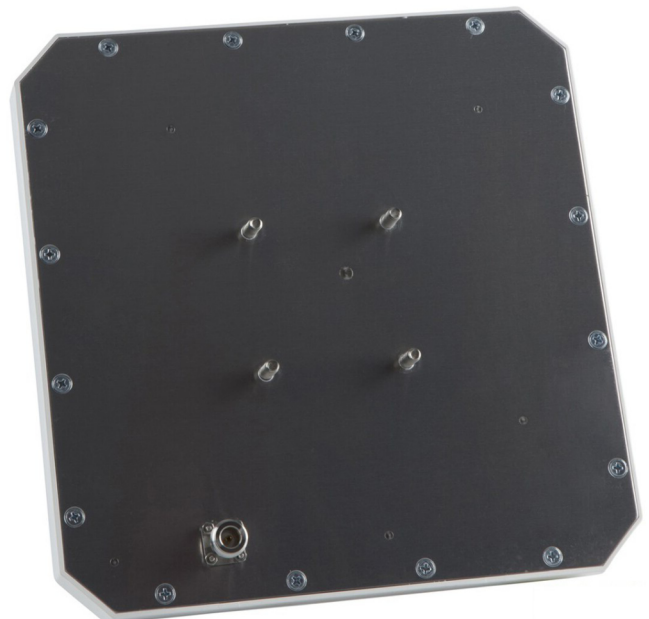
The Vulcan RFID™ PAL90209H (LHCP) Outdoor RFID Antenna is a durable and low-profile antenna made for outdoor environments.

This circularly polarized antenna provides reception and transmission of signals in the 902-928 MHz frequency band with extremely low VSWR and axial ratios, allowing users to achieve the maximum performance for an antenna of this type.

The Vulcan RFID™ PAR90209H is housed in an IP67 rated enclosure denoting its rugged and weatherproof design, and is UL 94-V2 rated for flammability. Additionally, the heavy duty radome enclosure is capable of being directly wall-mounted. This antenna is also offered in a right-hand version.

The Vulcan RFID™ PAL90209H is an ideal antenna for the following applications:

- Warehousing
- Distribution Centers
- Airports and Hospitals
- Transit Terminals
- Conveyor Belts





# Specifications

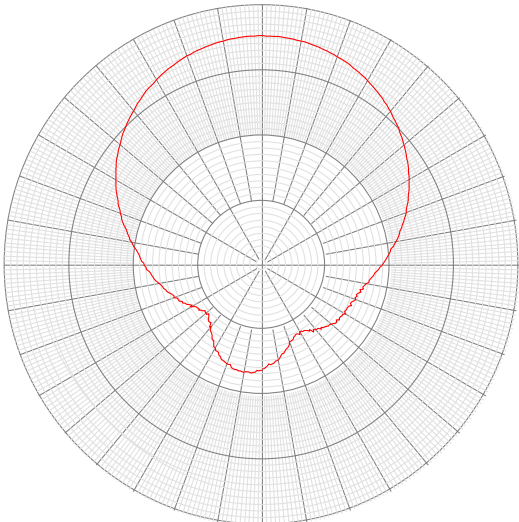
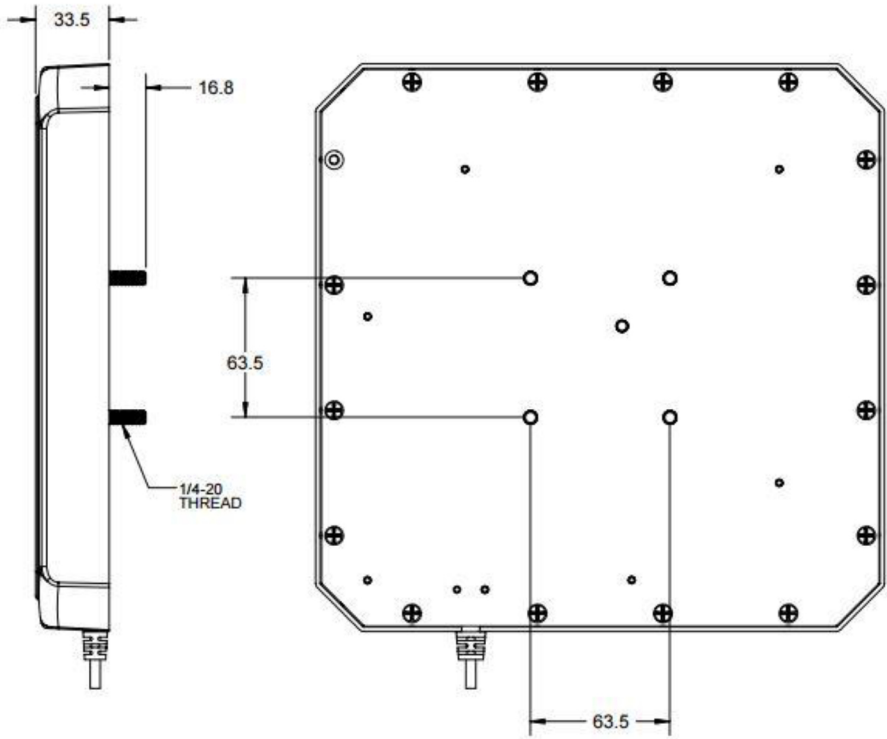
<b>ELECTRICAL</b>	Operating Frequency:	FCC (902-928 Mhz)
	Polarization:	Left hand circular
	Gain:	9.0 dBic
	Max Read Distance:	Testing recommended
	Elevation Beamwidth:	70°
	Azimuth Beamwidth:	70°
	VSWR:	1.3:1
	Front to Back Ratio:	20 dB
	Axial Ratio:	1 dB typical
	Nominal Impedance:	50 Ω
	Anti-Static Protection:	DC grounded
	Antenna Detection:	Not Published
	Maximum Input Power:	10 W

<b>MECHANICAL</b>	Connector Type:	N-Type female (connects to N-Type male)
	Mounting:	Threaded stud
	Cable:	Not included
	Dimensions:	259 x 259 x 33.5 mm (10.2 x 10.2 x 1.32 in)
	Weight:	1 kg (2.3 lbs)
	Radome Material:	High Strength PC

<b>ENVIRONMENT</b>	Operating Temperature:	-25°C to +70°C (-13° to +158°F)
	IP Rating:	IP 67



# Diagrams



915 MHz



# Accessories & Compatible Products

Vulcan RFID™



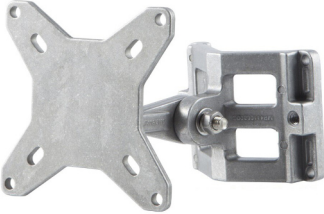
VUL-MAPPER

Vulcan RFID™



195-RP-TNC-M-N-Type-M-12  
240-RP-TNC-M-N-Type-M-25  
400-RP-TNC-M-N-Type-M-35

Vulcan RFID™



VUL-HDMNT-100MM

Vulcan RFID™



VUL-EZ-M6-COMBO

Vulcan RFID™



VUL-EZ-M9-COMBO

\*For custom cable connectors or lengths please [contact us](#).

## About Vulcan RFID™ Products

Vulcan RFID™ offers a broad range of innovative RFID antennas, RFID inlays, custom RFID tags, and accessories suited for a wide variety of industries and applications. With an extensive portfolio, Vulcan RFID™ products are manufactured to withstand environments ranging from mild to extreme. All Vulcan RFID™ products are thoroughly tested and built on a name you can trust. Vulcan RFID™ products enable you to reach and sustain high levels of performance with your UHF or NFC frequency application.



Inside USA  
**1 (888) 238-1155**  
Outside USA  
**1 (205) 383-2244**

info@atlasRFIDstore.com  
www.atlasRFIDstore.com