

Smart Technology. Delivered.

PDQ244915

2400 to 2500 MHz/4900 to 5950 MHz 4-port MIMO Directional Antenna

4-PORT MIMO DUAL-BAND, DUAL POLARIZED DIRECTIONAL ANTENNA

The Laird patent pending PDQ244915 antenna is a 4-port dual-band, dual polarized directional antenna for use in 802.11n MIMO indoor and outdoor applications. The antenna is an excellent choice for high density WiFi applications where adjacent interference is of concern. The dual-band frequency coverage means that a single type of antenna can be deployed with any MIMO radio in the 2400-2500 MHz and 4900-5950 MHz bands. In addition, the uniform and symmetrical radiation patterns will provide a high-level signal density into engineered coverage areas.

FEATURES RoHS

- Ultra thin, compact ASA UV stable white housing
- Articulating arm mount can anchored directly to a vertical surface or mast mounted and oriented for optimal signal radiation.
- Four radiating elements optimized for indoor & outdoor 802.11 MIMO applications
- Both horizontal & vertical polarization for multipath mitigation
- IP67 Rated and RoHS compliant

MARKETS

- High density WiFi
- Sports Entertainment outdoor stadiums, arenas & convention centers
- Hospitality hotels & casinos
- Transportation airport, bus, & train terminals
- Retail stores & indoor pedestrian malls
- Education libraries & museums



Patent Pending

PDQ244915

Patent Pending PDQ244915 w/standard articulating mount

PARAMETER	SPECIFICATIONS	
Number of Ports	Four (4)	
Polarization	2-ports Vertical ar	nd 2-ports Horizontal
Frequency Bands, MHz	2400-2500	4900-5950
Peak Gain, dBi (Typical)	10.7	13.4
Peak Gain, dBi (Max)	11.1	15.0
Max Gain ± 30° above Horizon, dBi	N/A	4.7
Azimuth Plane 3-dB Beamwidth V-pol, Typical	48°	21°
Azimuth Plane 3-dB Beamwidth H-pol, Typical	50°	21 °
Elevation Plane 3-dB Beamwidth V-pol, Typical	48°	18°
Elevation Plane 3-dB Beamwidth H-pol, Typical	47°	20°
VSWR, Typical	< 1.5:1	< 2.0:1
VSWR, Max	< 2.0:1	< 2.0:1
Nominal Impedence	50 Ω	
Port-to-Port Isolation, dB (Typical)	> 40	> 39
Port-to-Port Isolation, dB (Maximum)	> 30	> 30
F/B Ratio	> 25 dB	
Input Power, Max (Ambient Temp)	10 W (25°C/77°F)	
Operating Temperature	-30° C to +70° C (-22°F to 158°F)	
Storage Temperature	-40°C to +85°C (-40°F to +185°F)	
IP Dust & Water Ingress Rating	IP67	
Dimensions (length x width x height)	373.3 x 411.4 x 35.8 mm	
Cable	Plenum Rated,CMP Rated for Plenum per NFPA 262	
Weight	1.58 Kg (3.48 lb), 2.28 kg (5.03 lb- w/HDMNT)	
Mounting	Mast (44-57 mm) or Concrete Wall (HDMNT kit)	
Radome/Baseplate Material	ASA, White, UV Stable	
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Material Compliance

RoHS Compliant

PART NUMBER	CABLE LENGTH	CONNECTOR
PDQ244915-91NF	4x- 91 cm (3.0 ft)	4x - Type N-Female
PDQ244915-91NM	4x- 91 cm (3.0 ft)	4x - Type N-Male
PDQ244915-FNF	N/A	4x - Type N-Female

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Laird warrants to the original end user customer of its products that its products are free from defects in material and workmanship. Subject to conditions and limitations Laird will, at its option, either repair or replace any part of its products that prove defective by reason of improper workmanship or materials. This limited warranty is in force for the useful lifetime of the original end product into which the Laird product is installed. Useful lifetime of the original end product may vary but is not to exceed five (5) years from the original date of the end product purchase.

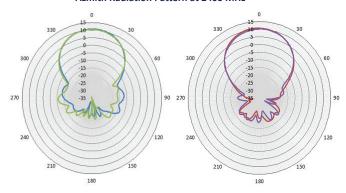




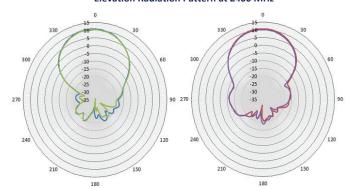
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RADIATION PATTERNS

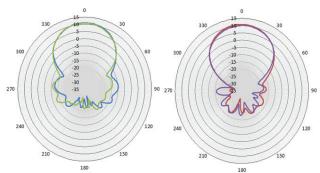
Azmith Radiation Pattern at 2400 MHz



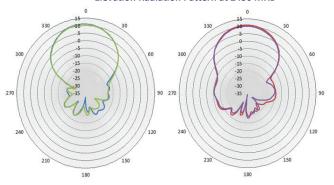
Elevation Radiation Pattern at 2400 MHz



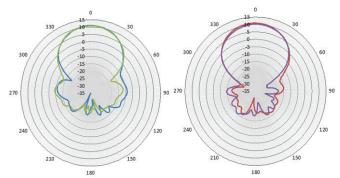
Azmith Radiation Pattern at 2450 MHz



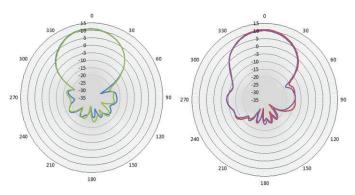
Elevation Radiation Pattern at 2450 MHz



Azmith Radiation Pattern at 2500 MHz



Elevation Radiation Pattern at 2500 MHz

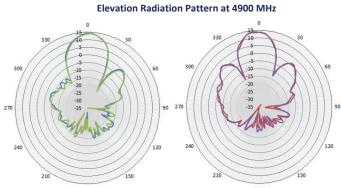




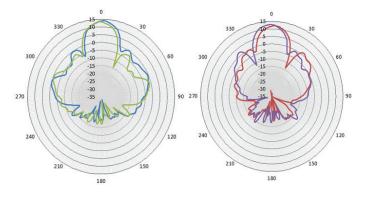
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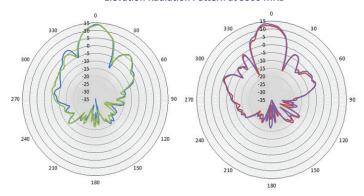
Azmith Radiation Pattern at 4900 MHz



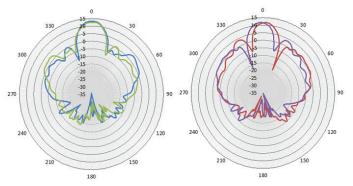
Azmith Radiation Pattern at 5500 MHz



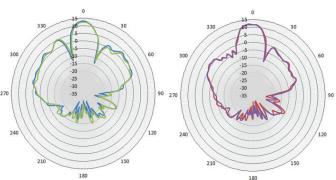
Elevation Radiation Pattern at 5500 MHz



Azmith Radiation Pattern at 5950 MHz



Elevation Radiation Pattern at 5950 MHz



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