



Smart Technology. Delivered.

PDQ24499

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 PDQ24499 antenna is a 4-port dual-band, dual polarized directional panel antenna for use in 802.11n MIMO indoor and outdoor applications. The antenna is an excellent choice for high density Wi-Fi 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

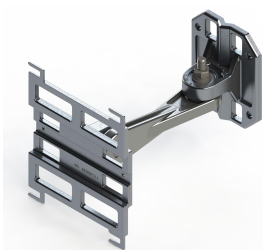
- Ultra thin, compact ASA UV stable white housing.
- Four radiating elements optimized for indoor & outdoor 802.11n or 802.11ac MIMO applications.
- Articulating arm mount can anchored directly to a vertical surface or mast mounted and oriented for optimal signal radiation.
- Both horizontal & vertical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

MARKETS / APPLICATIONS

- 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 PDQ24499



Standard Articulating Mount

| PARAMETERS | | SPECIFICATIONS | |
|---------------------------------------------|-----------------------------------------|----------------|-------------------------|
| Number of Ports | Four (4) | | |
| Frequency Bands, MHz | 2400-2500 | 4900-5950 | |
| Peak Gain, Typical dBi | 8.2 | 8.3 | |
| Peak Gain, Max dBi | 8.6 | 9.4 | |
| Max Gain ± 30o above Horizon, dBi | N/A | 7.4 | |
| Azimuth 3 dB Beamwidth, Typ (V-pol/H-pol) | 75°/62° | 62°/57° | |
| Elevation 3 dB Beamwidth, Typ (V-pol/H-pol) | 62°/73° | 50°/65° | |
| VSWR, Typical | < 1.6:1 | < 1.8:1 | |
| VSWR, Max | < 2.0:1 | < 2.0:1 | |
| Port-to-Port Isolation, Typical | > 34 dB | > 34 dB | |
| Port-to-Port Isolation, Maximum | > 30 dB | > 30 dB | |
| Nominal Impedance | 50Ω | | |
| Polarization | 2-Ports Vertical, 2-Ports Horizontal | | |
| Front-to-Back Ratio | > 15 dB | | |
| Maximum Input Power (per port) | 10 W (ambient temp of 25°C/77°F) | | |
| Dimensions | 254 x 254 x 41 mm (10" x 10" x 1.6") | | |
| Weight (without mount) | 1.14 kg (2.50 lbs) | | |
| Mounting | Articulating Mount, Mast or Flush Mount | | |
| Cable Type | Low Temperature Plenum Rated Cable | | |
| Wind Survival | 200 km/h (125 mph) | | |
| Wind Gust Survival | 266 km/h (165 mph) | | |
| Ingress Protection | IP67 | | |
| Operating Temperature | -30°C to +70°C (-22°F to +158°F) | | |
| Storage Temperature | -40°C to +85°C (-40°F to +185°F) | | |
| Radome/Baseplate Material | Polycarbonate, UL94-V0, UV Stable White | | |
| Material Compliance | RoHS Compliant | | |
| PART NUMBER | CABLE LENGTH | | CONNECTOR |
| PDQ24499-FNF | N/A | | 4x- Fixed Type N-female |
| PDQ24499-91NF | Dual- 91 cm (3.00 ft) | | 4x- Type N- female |
| PDQ24499-91NM | Dual- 91 cm (3.00 ft) | | 4x- Type N- male |

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RADIATION PATTERNS

2400 MHz

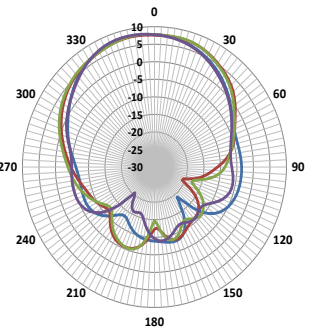
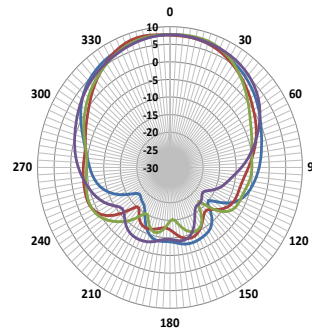
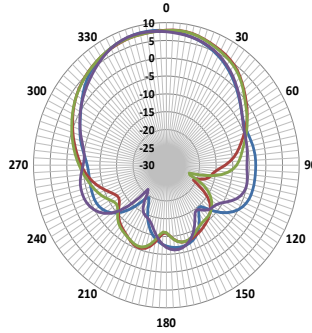
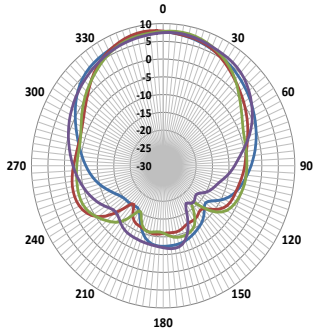
2450 MHz

Azimuth Radiation Pattern

Elevation Radiation Pattern

Azimuth Radiation Pattern

Elevation Radiation Pattern



2500 MHz

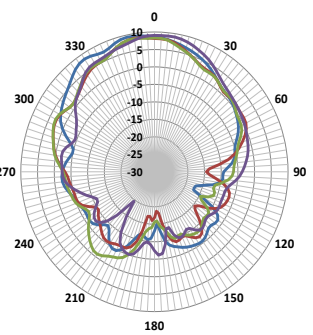
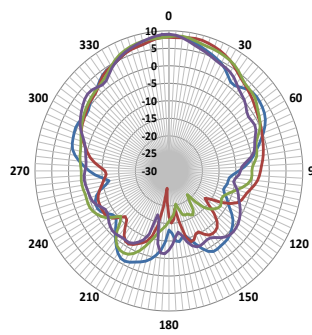
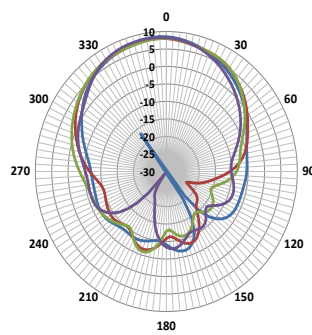
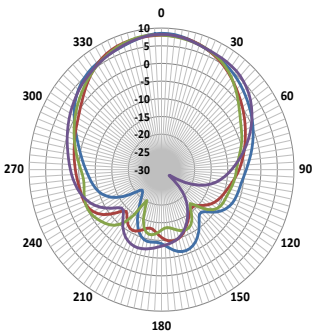
4900 MHz

Azimuth Radiation Pattern

Elevation Radiation Pattern

Azimuth Radiation Pattern

Elevation Radiation Pattern



5400 MHz

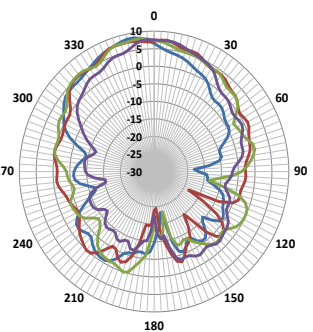
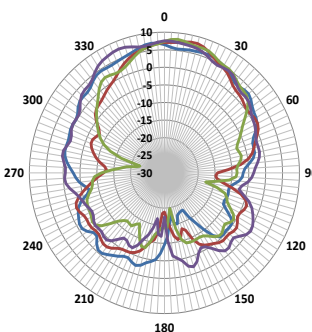
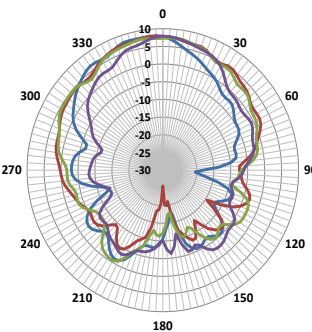
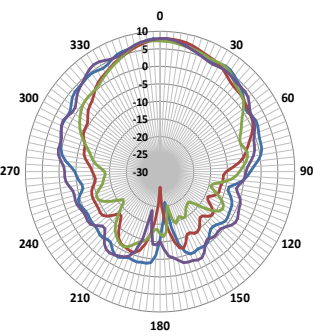
5950 MHz

Azimuth Radiation Pattern

Elevation Radiation Pattern

Azimuth Radiation Pattern

Elevation Radiation Pattern



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