



FEATURES AND BENEFITS

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

PDQ24496

4-Port MIMO Directional Antenna 2400-2500 MHz/4900-5950 MHz

The Laird Connectivity patent-pending PDQ24496 antenna is a four-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.

APPLICATIONS

- · High density Wi-Fi
- Outdoor stadiums, arenas, and convention centers
- Hotels and casinos
- Airport, bus, and train terminals
- Retail stores and indoor pedestrian malls
- Libraries and museums

ELECTRICAL SPECIFICATION	ı		
Model Name	PDQ24496		
Number of Ports	4	4	
Operating Frequency (MHz)	2400-2500	4900-5950	
VSWR - Avg	1.5:1	1.3:1	
VSWR - Max	<2.0:1	<2.0:1	
Peak Gain - Avg. (dBi)	6.4	4.8	
Peak Gain - Max. (dBi)	6.8	6.5	
Max. Gain ± 30° above Horizon (dBi)	-	3.2	
Port-to-Port Isolation – Avg. (dB)	43	41	
Port-to-Port Isolation - Max. (dB)	>30	>30	
Nominal Impedance (Ohms)	50		
Max Power - Ambient 25°C (W)	1		
Power Handling (W)			
Polarization	Vertical (2 ports), F	Horizontal (2 ports)	

ELECTRICAL SPECIFICATION			
Vertical Plane 3 dB Beamwidth - V-pol	62°	58°	
Vertical Plane 3 dB Beamwidth - H-pol	71°	56°	
Horizontal Plane 3 dB Beamwidth - V-pol	68°	58°	
Horizontal Plane 3 dB Beamwidth - H-pol	63°	57°	
Front-to-Back Ratio (dB)	>	>15	

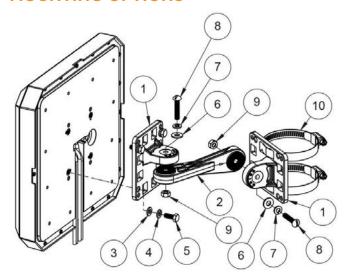
MECHANICAL SPECIFICATION	
Dimensions - mm (inches)	254 × 254 × 41 (10 × 10 × 1.6)
Weight - kg (lbs.) (without mount)	1.14 (2.50)
Mounting	Articulating mount, mast or flush
Cable Type	Low temperature plenum-rated cable
Radome Material	Polycarbonate, UL94-VO, UV stable white

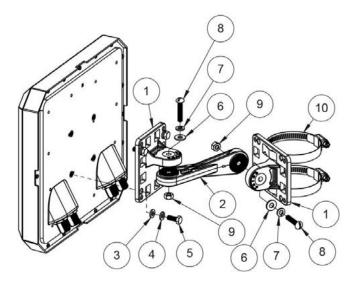
ENVIRONMENTAL SPECIFICATION	
Operating Environment (Indoor or Outdoor)	Indoor and outdoor
Operating Temperature - °C (°F)	-40 to +70°C (-40 to +158°F)
Storage Temperature - °C (°F)	-40 to +85°C (-40 to +185°F)
Wind Operational - km/hr (mph)	160 (100)
Wind Survival - km/hr (mph)	200 (125)
Ingress Protection Rating	IP67
Material Substance Compliance	RoHS

CONFIGURATION

PART NUMBER	CABLE LENGTH	CONNECTOR
PDQ24496-FNF	N/A	Fixed Type N Female
PDQ24496-91NF	91.0 cm (3.0 ft.) - 4x	4x Type N Female
PDQ24496-91NM	91.0 cm (3.0 ft.) - 4x	4x Type N Male

MOUNTING OPTIONS





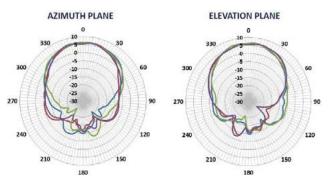
KEY	DESCRIPTION	QTY.
1	Mount flange	2
2	Mount arm	1
3	M6 flat washer	4
4	M6 lock washer	4
5	Bolt M6 x 16 mm	4
6	1/4" flat washer	2
7	1/4" lock washer	2
8	Screw 1/4" x 1.25"	2
9	¼" nut	2
10	Clamp	2

DATA AND DEVICES / PDQ24496

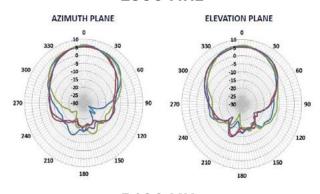
RADIATION PATTERNS

2400 MHz

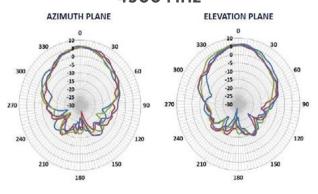
2450 MHz



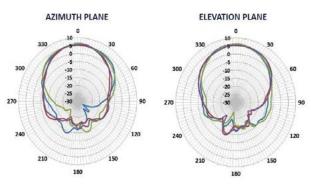
2500 MHz



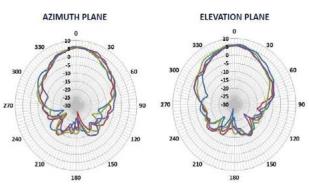
4900 MHz



5400 MHz



5950 MHz



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