

PDM245115H

4-Port Directional H/V MIMO Antenna

Smart Technology. Delivered.



2.4-2.5 & 5.15-5.9 GHz 14 dBi 4-PORT DIRECTIONAL H/V MIMO ANTENNA

Laird's PDM245115H antenna is a 4-port diretional antenna for use in 802.11n MIMO applications. Designed for low side lobe and front-to-back performance, the antenna is an excellent choice for high density WiFi applications where adjacent antenna interference is of concern. Equipped with two Vertically polarized ports and two Horizontally polarized ports, the antenna takes advantage of both polorization and spatial separation to mitigate multipath issues.

Enclosed in a compact/low profile Polycarbonate Radome and equipped with an articulating arm that can be affixed to a mast or anchored directly to a vertical surface, the antenna can be oriented to take full advantage of the antenna's directionality. Uniform and symmetrical radiation patterns provide high-level signal density into defined coverage zones. This antenna will greatly enhance the performance of 802.11n systems where physical obstructions are anticipated. The dual band frequency coverage means that a single type of antenna can be deployed with any MIMO radio in the 2.4-2.5 GHz and 5.15-5.9 GHz bands.

FEATURES

- 802.11n MIMO
- Wide band 2.4-2.5 GHz and 5.15-5.9 GHz performance
- Both Vertically and Horizontally polarized radiating elements in a single solution
- Equitable for both indoor and outdoor solution
- Low Profile
- Multipath mitigation
- Lower adjacent antenna interference
- Frequency diplexed dual polarized radiatiors

MARKETS

- High Density WiFi
- Stadiums, Arenas, Convention Centers
- Transport Terminals
- Campuses
- Outdoor Networks

SPECIFICATIONS

ELECTRICAL			
Model Number	PDM245115H		
Frequency	2400-2500 MHz	5150-5900 MHz	
Peak Gain	14.0 dBi	14.5 dBi	
Nominal Impedance	50Ω		
VSWR (H,V)	<1.6:1	<2.0:1 (5150-5700 MHz) <1.5:1 (5700-5900 MHz)	

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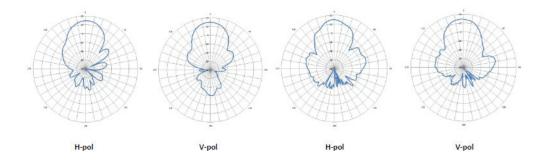
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ELECTRICAL				
Azimuth Co-Polar First Sidelobe	-20 dB	-20 dB		
Elevation Co-Polar Frist Sidelobe	-10 dB	-15 dB		
F/B Ratio	35 dB			
Azimuth Plane 3-dB Beamwidth (Typ.)	31°	31°		
Elevation Plane 3-dB Beamwidth (Typ.)	33°	27°		
Power	1 Watt			
RF Connector	Type N, Female (4x)			
Radome	Polycarbonate, White			
Operational Temperature	-40°C to +70°C			
Storage Temperature	-40°C to +85°C			
Dimensions	507 x 368 x 21.1 mm (20 x 14.5 x 0.8 in)			
Weight (no brackets)	2.3 kg (5.1 lbs)			
Water/Foreign Body Ingress	IP67			
RoHS Compliance	Yes			
Standard for Safety: Fire and Smoke (Plenum)*	UL 2043 Certified			
Flammability Rating (Radome)	UL94V0 Materials			

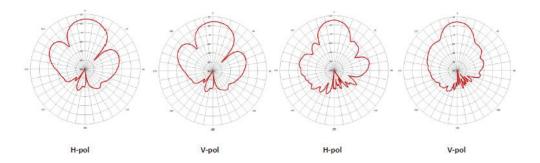
AZIMUTH PATTERNS: 2450 MHZ

AZIMUTH PATTERNS: 5550 MHZ



ELEVATION PATTERNS: 2450 MHZ

ELEVATION PATTERNS: 5550 MHZ



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