



### 2.4-2.5 & 5.1-5.9 GHz 8 dBi WALL MOUNTED DIRECTIONAL MIMO ANTENNA

The PDM24519 antenna is a dual-band 3-port directional antenna for use in 802.11n MIMO applications. Equipped with two Vertically polarized ports and a single Horizontally polarized port, the antenna has been designed to take advantage of both polarization and spatial separation to enhance coverage areas populated with obstructions. Housed in a compact, low-profile Polycarbonate Radome and equipped with an articulating arm the antenna can be wall mounted and oriented to take full advantage of the antenna's directionality.

The radiation patterns are uniform and symmetrical, providing high levels of 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 5.1-5.9 GHz bands.

#### FEATURES

- Both Vertically and Horizontally polarized radiating elements in a single solution
- Compact low profile housing
- Equitable for both indoor and outdoor solutions
- Wide band 2.4-2.5 GHz and 5.1-5.9 GHz performance

#### MARKETS

- 802.11n MIMO
- Offices, hotels and college campuses
- Airports and hospitals
- Bus terminals and train stations
- Museums, libraries and retail malls
- Outdoor networks

#### TYPICAL ELECTRICAL SPECIFICATIONS

Frequency	2400-2500/5150-5900 MHz	
Peak Gain	8.0/9.0 dBi	
Impedance	50 Ω	
VSWR (max)	2:1	
Polarization	Horizontal (port 1), Vertical (ports 2 & 3)	
Isolation	VP1 to VP2	17 dB/33 dB
	HP to VP1	33 dB/> 40 dB
	HP to VP2	37 dB/> 40 dB
Azimuth Plane 3dB Beamwidth, Typical	90° / 120°	
Elevation Plane 3dB Beamwidth, Typical	45° / 30°	
F/B Ratio	20 dB	
Power	10 Watts	
RF Connector	Type N Female Fixed 3x	
Radome	Polycarbonate EXL9330 White	
Operating Temperature	-30°C to +70°C	
Storage Temperature	-40°C to +85°C	
Water/Foreign Body Ingress	IP-67	
Antenna Dimensions:	7" x 12" x 1.0" (17.8 x 30.5 x 2.5 cm)	
Antenna Weight	0.69 kg	

#### CONNECTORS

Part No.	Connector
PDM24519-FNF	Surface Mount Type N- female

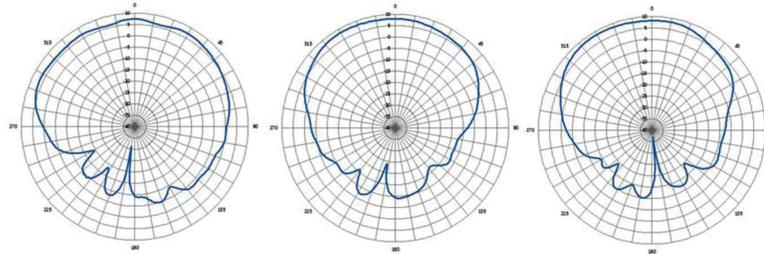
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**AZIMUTH PATTERNS: 2450 MHZ**

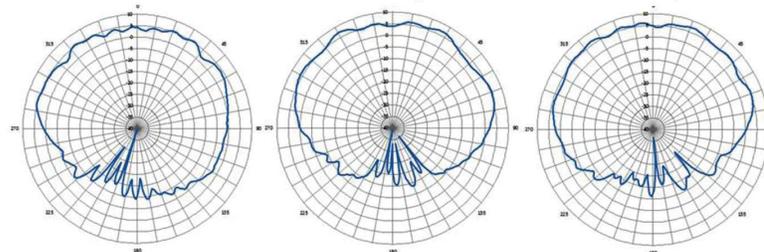


**Port 1: H-pol**

**Port 2: V-pol**

**Port 3: V-pol**

**AZIMUTH PATTERNS: 5550 MHZ**

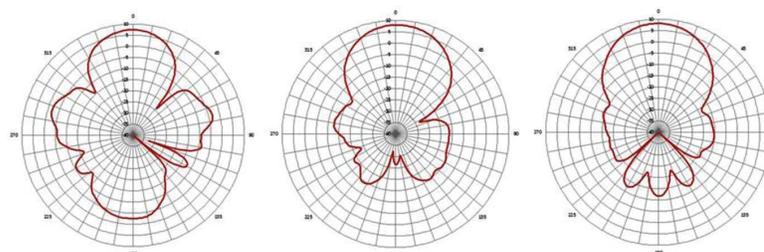


**Port 1: H-pol**

**Port 2: V-pol**

**Port 3: V-pol**

**ELEVATION PATTERNS: 2450 MHZ**

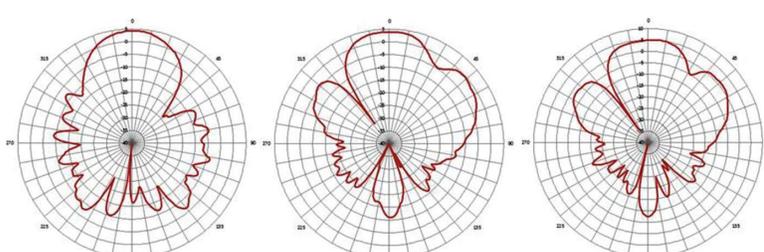


**Port 1: H-pol**

**Port 2: V-pol**

**Port 3: V-pol**

**ELEVATION PATTERNS: 5550 MHZ**



**Port 1: H-pol**

**Port 2: V-pol**

**Port 3: V-pol**

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