



## Mesh Series™ Vertically Polarized Omni 2.4GHz to 5.85GHz

### Features

- Mesh Networking Vertically Polarized Omnidirectionals
- Various Gains Available: 5dBi to 12dBi
- Various Frequencies Available: 2.4GHz 3.5GHz, 4.9GHz, 5GHz, also Tri-Band Model
- Type N Male Integrated Connector
- Rugged, Lightweight and Waterproof

### Applications

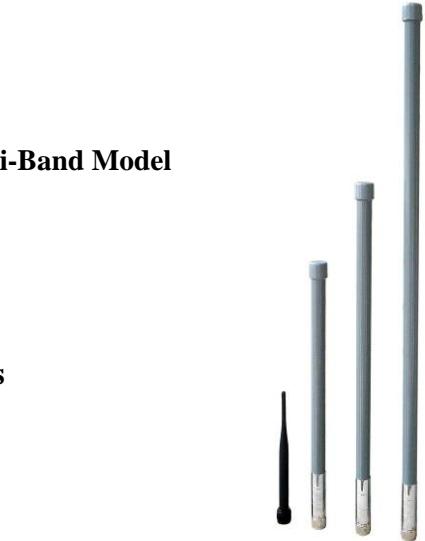
- Mesh Networking Applications
- 2 to 6 GHz wireless applications
- Point to Multi-point Systems
- Base Station Antennas
- WiFi Access Points
- Wimax Base Stations

### Description

The Mesh Series™ Omni Directional antenna systems offered by Pacific Wireless are designed with Mesh Networking in mind. With their waterproof N Male connector they can be easily mounted to an enclosure like the Pacific Wireless Die Cast Enclosure to give total wireless coverage. Various gains and frequencies are available. They are constructed of UV resistant materials and are waterproof for a long service life.

### Specifications

Parameter	Min	Typ	Max	Units
<b>VSWR</b>		1.5:1		
<b>Impedance</b>		50		OHM
<b>Input Power</b>			10	W
<b>Rated Wind Velocity</b>			125 (56)	mph (m/sec)
<b>Operating Temperature</b>	-40		+70	Deg C



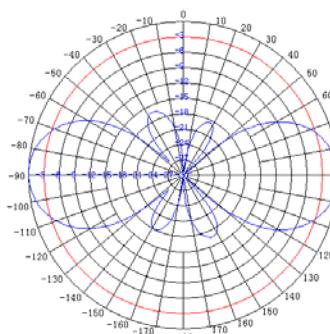
OD5WM-6  
Wide Band  
Mesh Omni



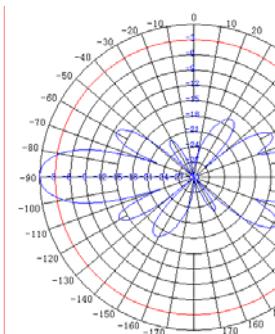
Typical Application  
PAW-DCE with Mesh Omni

Model	Frequency (MHz)	Gain	Vert BW	Weight	Dim (L x dia)
<b>OD24M-5</b>	2400-2485	5dBi	25 deg	0.7 lbs (0.3kg)	14x0.6" (355x15mm)
<b>OD24M-7</b>	2400-2485	7dBi	18 deg	0.9 lbs (0.4kg)	21x0.6" (540x15mm)
<b>OD24M-9</b>	2400-2485	9dBi	14 deg	1.1 Lbs (0.5kg)	27x0.6" (690x15mm)
<b>OD24M-12</b>	2400-2485	12dBi	7 deg	1.4 Lbs (0.6kg)	48x0.6" (1220x15mm)
<b>OD35M-10</b>	3400-3600	10dBi	14 deg	1.1 Lbs (0.5kg)	27x0.6" (690x15mm)
<b>OD49M-6</b>	4940-4990	6dBi	30 deg	1.5oz (43g)	7x 0.5" (175x13mm)
<b>OD49M-11</b>	4940-4990	11dBi	5 deg	1.1 Lbs (0.5kg)	31x0.6" (787x15mm)
<b>OD5WM-6</b>	5150-5850	6dBi	8.5 deg	5oz (0.14kg)	19x0.6" (483x15mm)
<b>OD58M-12</b>	5400-5850	12dBi	7 deg	1.1 Lbs (0.5kg)	27.5x0.6" (700x15mm)
<b>RD2458-5-NM</b>	2400-2485, 5150-5350, 5725-5850	2dBi@2.4 5dBi@5.8	120 deg	1.6oz (45.4g)	7.6x0.5" (193 x 12.7mm)

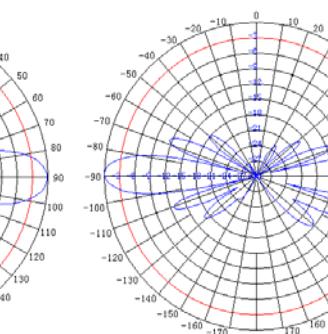
## Antenna Patterns



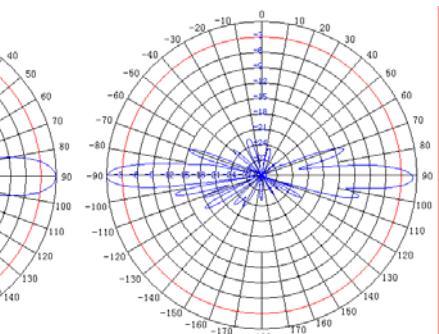
OD24M-5 E-Plane



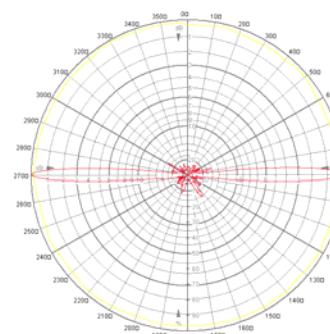
OD24M-7 E-Plane



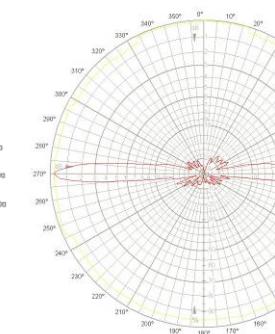
OD24M-9 E-Plane



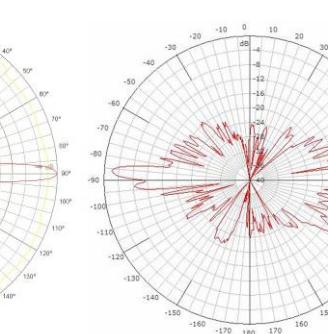
OD24M-12 E-Plane



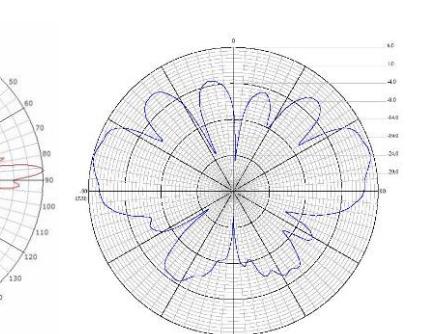
OD58M-12



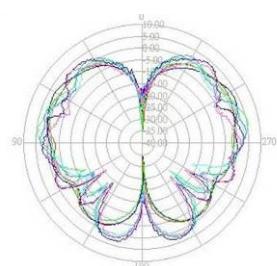
OD5WM-6



OD49M-11D1 E-Plane



OD49M-6 E-Plane



RD2458-5-NM E-Plane

## Notes:

- All shipments F.O.B. Pacific Wireless Bluffdale, UT 84065
- All antennas carry a 2 Year Warranty

System Ordering: OD  M-   

Frequency

- 24 = 2400 to 2485MHz
- 35 = 3400 to 3600 MHz
- 49 = 4940 to 4990 MHz
- 58 = 5400 to 5858 MHz
- 5W = 5150 to 5850 MHz

Antenna Gain

- 5 = 5dBi
- 12 = 12dBi
- Etc.

## Suggested Accessory



New N Female extended Bulkhead to SMA Female adapter for mounting a Mesh Omni in an enclosure  
# AD-NFB-SMAF

\* RD2458-5-NM 5dBi 2400,5300,5800MHz Tri Band Rubber Duck

For further information contact:



**Pacific Wireless**  
14575 South Centerpoint Way  
Bluffdale, UT 84065  
TEL (801) 572-3024  
FAX (801) 572-3025  
[www.pacwireless.com](http://www.pacwireless.com)



## Mesh Series™ Vertically Polarized Omni 5150 to 5850 MHz Operation

### Features

- 6 dBi Antenna Gain in a Slimline Package
- Type N Male Integrated Connector
- Rugged, Lightweight and Waterproof

### Applications

- 5.1 to 5.8 GHz Mesh Applications
- 802.11a Wireless Systems
- Point to Multi-point Systems
- Base Station Antennas
- Wireless Broadband Systems
- WiFi Access Points

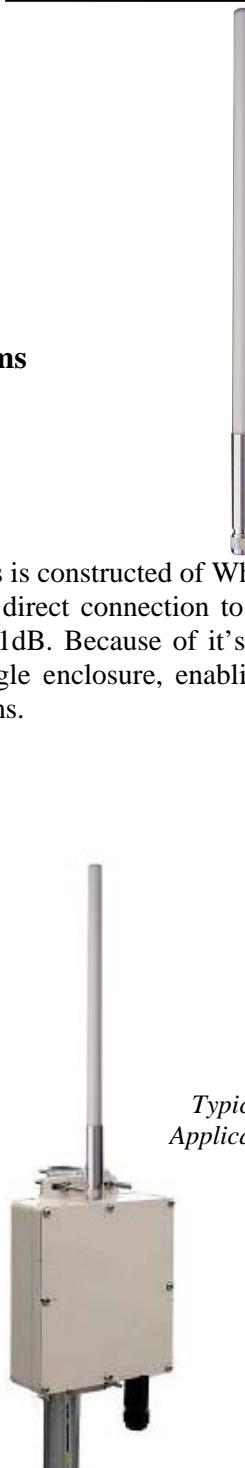
### Description

The 5GHz Wide Band Mesh Series Omni Directional antenna offered by Pacific Wireless is constructed of White color UV-stable fiberglass and stainless steel base. They have Type N Male connectors for direct connection to wireless enclosures. The horizontal pattern is a full 360 degrees with gain flatness better than 1dB. Because of it's slimline design and low wind loading characteristics, multiple antennas can be used on a single enclosure, enabling multi antenna diversity and MIMO technologies used in many modern mesh networking systems.

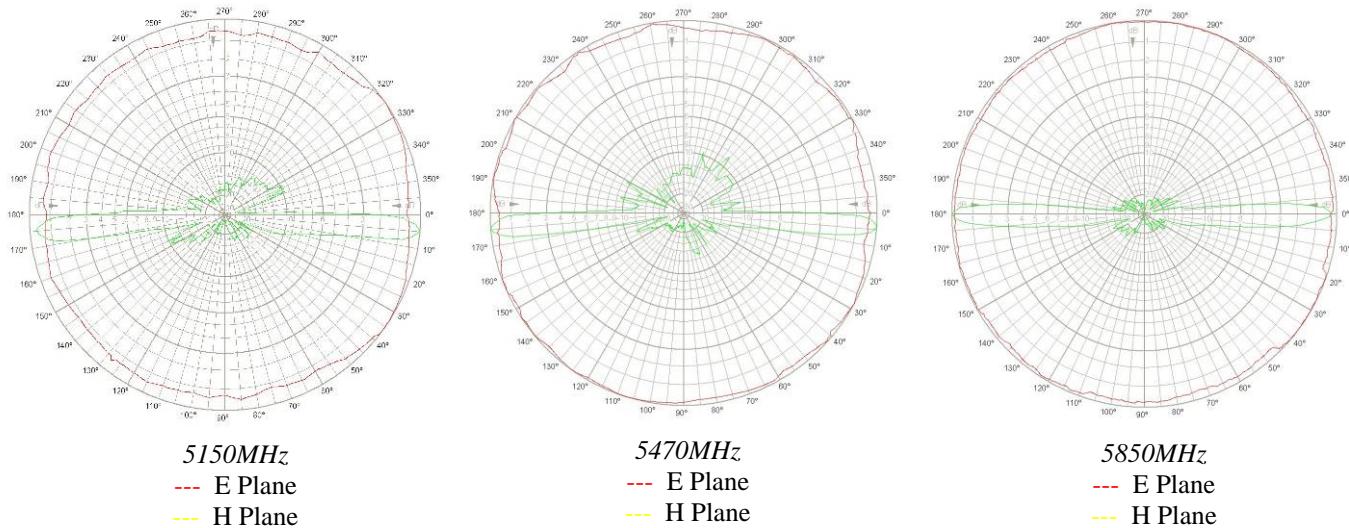
### Specifications

Parameter	Min	Typ	Max	Units
<i>Frequency Range</i>	5150		5850	MHz
<i>Gain</i>		6		dBi
<i>Horizontal Beamwidth</i>		360		deg
<i>Vertical Beam Width</i>		8.5		deg
<i>VSWR</i>		1.5:1		
<i>Impedance</i>		50		OHM
<i>Input Power</i>			100	W
<i>Operating Temperature</i>	-40		+70	Deg C
<i>Rated Wind Velocity</i>		125 (56)		Mph (M/sec)
<i>Dimensions</i>		19 x 0.6 (483 x 15)		In (mm)
<i>Weight</i>		5 (0.14)		oz(kg)
<i>Lightning Protection</i>		DC Ground		

Typical  
Application



## Antenna Patterns at 5GHz



Wind Loading	
100MPH	1.9 Lbs
125MPH	3 Lbs

### Suggested Accessory



New N Female extended Bulkhead to SMA Female adapter for mounting a Mesh Omni in an enclosure  
# AD-NFB-SMAF

### Notes:

- All shipments F.O.B. Pacific Wireless Bluffdale, UT 84065
- All antennas carry a 2 Year Warranty

### System Ordering:

**OD5WM-6** 6dBi 5150-5850Mhz Wideband Omnidirectional Antenna

### For further information contact:



**Pacific Wireless**  
14557 South 790 West Unit B  
Bluffdale, UT 84065  
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[www.pacwireless.com](http://www.pacwireless.com)

## NLOS Series Vertically Polarized Omni 860 to 960 MHz Operation

### Features

- 900MHz Omni Directional Antenna
- Available in 5, 6, 8 and 11dBi gain models
- 1degree electrical downtilt available on the 11dBi model
- UV Stabilized Fiberglass / Stainless Steel Construction
- 18" Pigtail with Type N Female Connector Standard ( 6dBi and 8dBi Models Only)

### Applications

- 900 MHz ISM Band Applications
- Non Line of Sight Applications
- WISP Base Station Equipment
- Cellular Applications

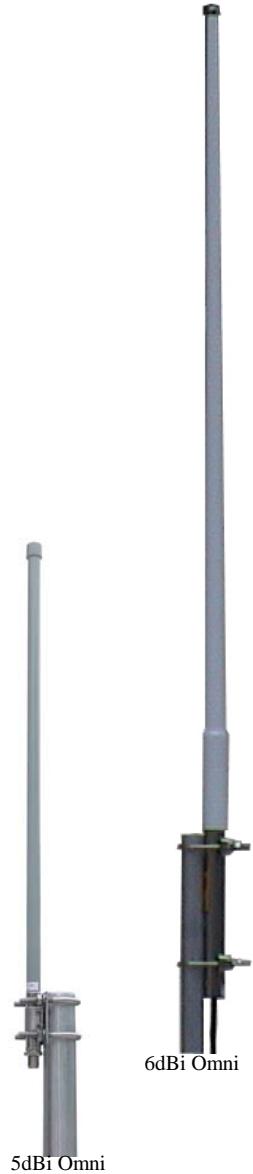
### Description

The NLOS Series Omnidirectional Antenna system offered by Pacific Wireless are constructed of UV stabilized fiberglass and Stainless Steel for long service life. Mounting is easy with a dual u-bolt mounting system. The antennas are vertically polarized. The 6dBi and 8dBi come standard with 18" pigtailed terminated in an N female connector. The 5dBi and 11dBi comes standard with an integrated N Female connector. The omni's are DC grounded for lightning protection. The 11dBi omni is available with 1 deg electrical downtilt which provides null fill and improved close-in coverage.

### Specifications

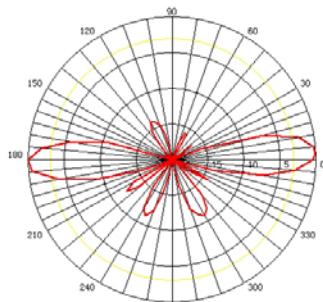
Parameter	Min	Typ	Max	Units
<b>VSWR</b>		1.5:1		
<b>Impedance</b>		50		OHM
<b>Input Power</b>			100	W
<b>Pole Diameter (OD)</b>	1 (25)		2 (51)	Inch (mm)
<b>Operating Temperature</b>	-45		+70	Deg C
<b>Rated Wind Velocity</b>			125 (56)	Mph (m/sec)

\*Note: Pacific Wireless does not supply the mounting pole

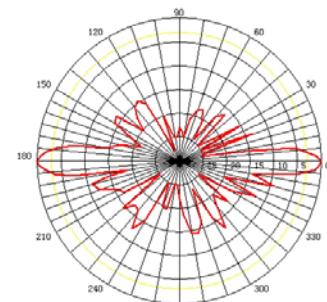


	OD9-5	OD9-6	OD9-8	OD9-11	OD9-11D1
<b>Gain</b>	5dBi	6dBi	8dBi	11dBi	11dBi
<b>VSWR 1.5:1 Bandwidth</b>	890 – 950 MHz	865-945 MHz	865-945MHz	860-960MHz	860-960MHz
<b>VSWR 2.0:1 Bandwidth</b>		860-960 MHz	860-960MHz		
<b>Vertical 3dB Beamwidth</b>	36 Deg	16 deg	10 deg	7 deg	7 deg
<b>Electrical Downtilt</b>	0	0	0	0	1 deg
<b>Weight</b>	1.3 Lbs (.6 Kg)	5.4 Lbs (2.0 Kg)	6.7 Lbs (2.5 Kg)	9.4 Lbs (3.5 Kg)	9.4 Lbs (3.5 Kg)
<b>Length Dimension</b> <b>Diameter = ~1.5"( 38 mm)</b>	24" (610 mm)	5.6' (1.7 m)	8.5' (2.6 m)	11' (3.4 m)	11' (3.4 m)

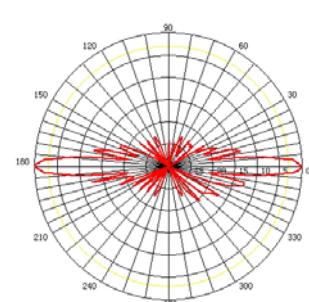
## Antenna Patterns at 910 MHz



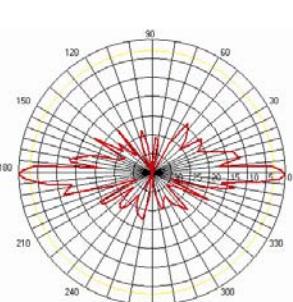
OD9-6 E



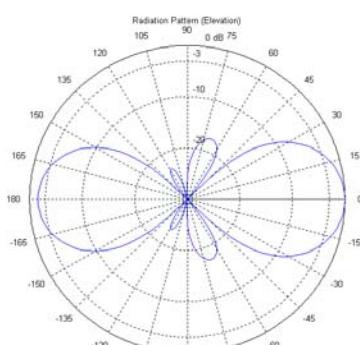
OD9-8 E



OD9-11 E



OD9-11D1 E Plane



OD9-5 E



OD9-6, OD9-8, OD9-11



OD9-5

### Notes:

- All shipments F.O.B. Bluffdale, UT 84065
- All antennas carry a 2 Year Warranty

### System Ordering:

OD9-5	5dBi Slimline NLOS Series 900MHz Omni Antenna with N Female Bulkhead Connector
OD9-6	6dBi NLOS Series 900MHz Omni Antenna with 18" Pigtail/N Female Connector
OD9-8	8dBi NLOS Series 900MHz Omni Antenna with 18" pigtail N Female Connector
OD9-11	11dBi NLOS Series 900MHz Omni Antenna with Integrated N Female Connector
OD9-11D1	11dBi 1deg elec downtilt NLOS Series 900MHz Omni Antenna with Integrated N Female Connector

For further information contact:



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