

Cupcake	WFP0200507.pdf
9dBi 120deg sector	SA24_data_sheet.pdf
9dBi	Pawod24.pdf
12dBi omni's	Pawod24.pdf
7dBi Mag Mnt Omni	PAWMA24_Data_Sheet.pdf

The 12dBi omni only applies to the ME and SE's.

Vertically Polarized Sector Antennas

2400 to 2485 MHz Operation

Features

- Vertically Polarized
- 90 deg, 120 deg and 180deg models with gains from 9dBi to 17dBi
- Type N Female Integrated Connector
- Extremely Rugged for long service life in extreme environments
- Weatherproof

Applications

- 2.4 GHz ISM Band Applications
- 802.11b and 802.11g Wireless Systems
- Point to Multi-point Systems
- Base Station Antennas
- Wireless Broadband Systems
- WiFi Access Points

Description

The Vertically Polarized Sector antenna systems offered by Pacific Wireless are constructed of UV stable fiberglass radomes for extremely long service life in the most demanding conditions. The antennas are constructed using corrosion resistant metal elements and a unique air dielectric system which are more stable than PCB based antenna systems because they don't absorb moisture, which can degrade the performance of PCB based antenna systems. The 14 and 17dB sectors come with a stainless steel scissor bracket system for ease of installation and alignment. The 9dBi sector comes with a galvanized steel bracket with stainless steel hardware.

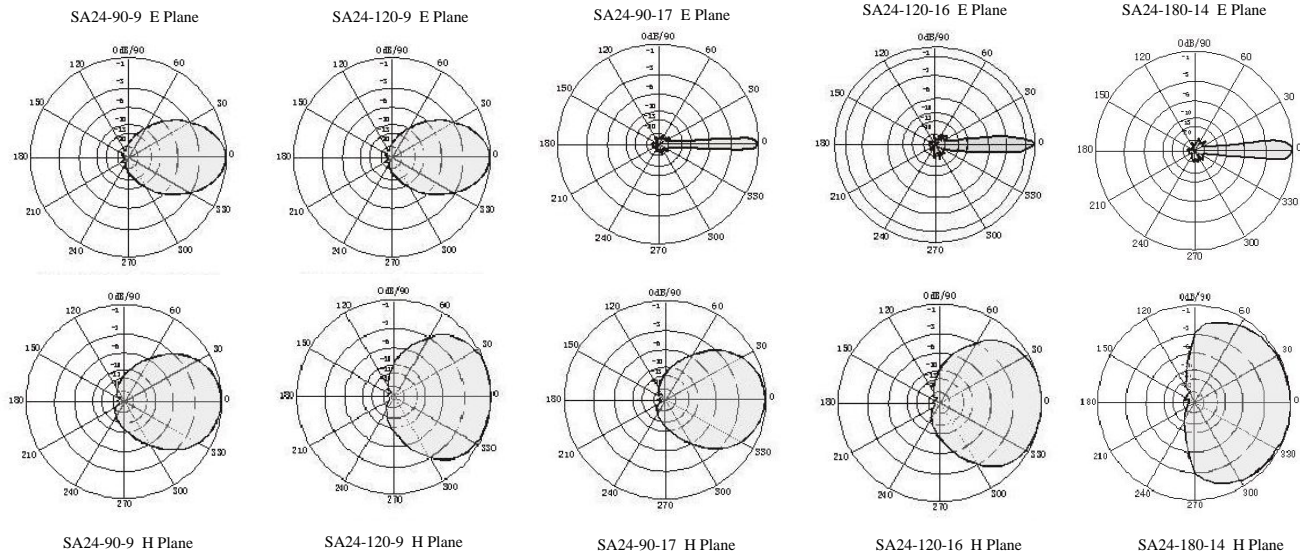
Specifications

Parameter	Min	Typ	Max	Units
Frequency Range	2400		2485	MHz
Input Return Loss (S₁₁)		-14		dB
VSWR		1.5:1		
Impedance		50		OHM
Input Power			100	W
Pole Diameter (OD)	1" (25)		2" (50)	Inch (mm)
Operating Temperature	-40		+70	Deg C



2400 – 2485 MHz	SA24-90-9	SA24-120-9	SA24-90-17	SA24-120-16	SA24-180-14
Gain	9.5 dBi	9 dBi	17 dBi	16.4 dBi	14 dBi
Horizontal Beam Width	90 deg	120 deg	90 deg	120 deg	180 deg
Vertical Beam Width	40 deg		7 deg		10 deg
Front to Back	25 dB		25 dB		25 dB
Mechanical Downtilt	45 deg		10 deg		10 deg
Weight	25oz (0.7kg)		9.9lb (4.5kg)		11lb (5kg)
Dimensions (LxWxH)	10" x 6.5" x 2.5" (254 x 165 x 63.5mm)		38" x 6.5" x 2.5" (965 x 165 x 63.5mm)		40" x 10.25 x 7 (1020 x 260 x 180mm)

Antenna Patterns at 2.4GHz



Wind Loading				
Model	Sq. In	100MPH	125MPH	100MPH 1/2" radial ice
SA24-xx-9	65	16.3 lb	25.4 lb	17 lb
SA24-xx-17	247	61.8 lb	96.5 lb	62 lb
SA24-180-14	400	100	156	102

Notes:

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

System Ordering: SA24 - -

Horizontal Beamwidth

90 = 90deg
120 = 120deg
180 = 180deg

Antenna Gain

9 = 9dBi
14 = 14dBi
16 = 16dBi
17 = 17dBi



For further information contact:



Pacific Wireless

14575 South Centerpoint Way
Bluffdale, UT 84065
TEL (801) 572-3024
FAX (801) 572-3025
www.pacwireless.com

Vertically Polarized Omni Directional Antennas

2400 to 2485 MHz Operation

Features

- 9 and 12 dB Antenna Gain
- 12dB has 3 Deg Electrical Downtilt Standard
- 9dBi has 0 deg or 7deg electrical downtilt options
- Type N Female Integrated Bulkhead Connector
- 12dB has optional 24" Pigtail with N Male or N Female Connector
- Rugged, Lightweight and Waterproof

Applications

- 2.4 GHz ISM Band Applications
- 802.11b and 802.11g Wireless Systems
- Point to Multi-point Systems
- Base Station Antennas
- Wireless Broadband Systems
- WiFi Access Points



9dB Omni

Description

The Omni Directional antenna systems offered by Pacific Wireless are constructed of UV-stable fiberglass with all stainless steel brackets standard. They come standard with Type N female bulkhead connectors with extra heavy duty nuts for optional standoff type mounting. The 12dBi has a 3 Deg Electrical Downtilt standard. It also has 24" pigtail option with N Female or N Male connectors for direct connection to outdoor access points. The 9dBi is available with 0 degree electrical downtilt and 7 degree electrical downtilt which is perfect for close-in wireless systems such as apartment complexes. Because of their unique high performance design which eliminates nulls, they can be used in a wide variety of wireless systems.

Specifications

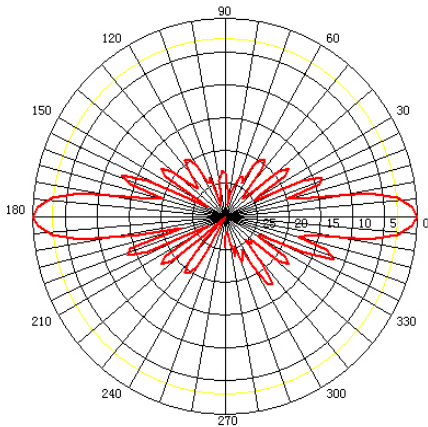
Parameter	Min	Typ	Max	Units
Frequency Range	2400		2485	MHz
Input Return Loss (S₁₁)		-14		dB
VSWR		1.5:1		
Impedance		50		OHM
Input Power			100	W
Pole Diameter (OD)	1 25		2 50	inch mm
Operating Temperature	-40		+70	Deg C

2400 – 2485 MHz	OD24-9	OD24-12
Gain	9dBi	12dBi
Vertical Beam Width	14deg	7 deg
Electrical Downtilt	0 deg or 7 deg	3 deg
Rated Wind Velocity	125mph (56 M/sec)	125mph (56 M/sec)
Weight	1.1 Lbs (0.5Kg)	1.4 Lbs (0.6Kg)
Dimension (L +/-1.0")	27" (69cm)	48" (122cm)
Diameter Approx. 0.6" (15mm)		

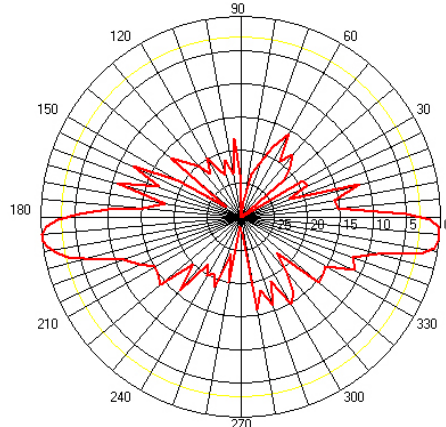


12dB Omni
with Pigtail

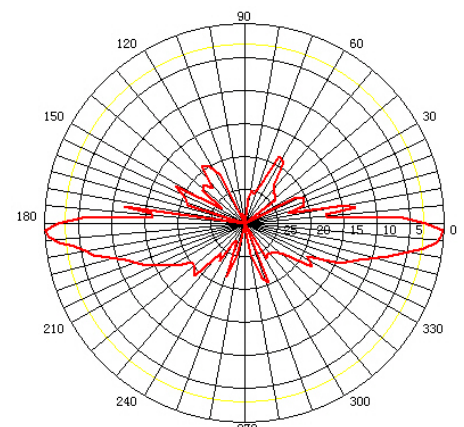
Antenna Patterns at 2.45GHz



9dB Vertical Antenna Pattern
0 Deg Elec Downtilt – E Plane



9dB Vertical Antenna Pattern
7 Deg Elec Downtilt – E Plane



12dB Vertical Antenna Pattern
3 Deg Elec Downtilt – E Plane

Wind Loading

100MPH	8.75 Lbs
125MPH	13.7 Lbs

Notes:

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



Closeup of standard
stainless steel bracket
and bulkhead N
connector

System Ordering: OD24- - -

Antenna Gain

9 = 9dBi

12 = 12dBi

Electrical Downtilt Options – (9dBi Only)

Blank = 0 Degrees Electrical Downtilt

D7 = 7 Degrees Electrical Downtilt

Options

Blank = N Female Integrated Connector and stainless steel bracket

P = 24" Pigtail with N Male (12dBi only)

PF = 24" Pigtail with N Female (12dBi Only)

For further information contact:



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FAX (801) 572-3025
www.pacwireless.com



Pacific Wireless

693 E Draper Heights Way Suite 210
 Draper, UT 84020
 TEL (801) 572-3024
 FAX (801) 572-3025
 www.pacwireless.com

PAWMA24

DATA SHEET

2.4GHz Mobile Antennas

2.4 to 2.485 GHz Operation

Features

- 2.4GHz Omni Directional Mobile Antennas
- Available in 5.5dBi and 7dBi gain
- 5.5dB has Integral Magnetic Mount
- Magnetic Mounts ,Trunk Lid and Surface Mounts available for 7dbi

Applications

- 2.4 GHz ISM Band Applications
- Point to Multi-point Systems
- 2.4 GHz Mobile Applications
- Vehicular Antenna

Description

The 5.5dBi Omnidirectional Mobile Antenna is constructed of plated and powder coated steel. It has a plastic base with integral magnetic mount. It comes with a 6Ft long RG174 cable with a variety of connector options for almost any application.

The 7dBi Omnidirectional Mobile Antenna offered by Pacific Wireless are constructed of Stainless Steel base for long service life. Available mounts include small and large magnetic mounts, Thru Hole Surface mounts as well as Trunk Lid mounts. The antennas are vertically polarized. They come with a UHF Male connector as standard to mate with various mounts. The mounts come with 10 ft. of RG-58/U cable with N Female Connectors. Alternate connector configurations are available by request.

Note: The antennas must be mounted on a metal surface at least 1 Meter diameter for best performance.

Specifications

Parameter	Min	Typ	Max	Units
Frequency Range	2400		2485	MHz
Input Return Loss (S₁₁)		-14		dB
VSWR		1.5:1		
Impedance		50		OHM
Input Power			50	W
Operating Temperature	-45		+70	Deg C

2400 - 2485 MHz	MA24-5	MA24-7	MM-90	MM-110	MM-TM	MM-SM-LP	MM-SM-B
Gain	5.5dB	7dB	Antenna Mounts				
Weight	3.2 Oz (100 g)	6.4 Oz (200 g)	1.5Lb (0.55Kg)	2.1Lb (0.8Kg)	.7Lb (0.32Kg)	.5Lb (0.23Kg)	.5Lb (0.23Kg)
Dimension	6 in (220 mm)	12 in (30 cm)	3.5" (90mm) Dia	4.3" (110mm) Dia	3" (76mm)	1.5"x1.25" (38 x 32mm)	1.75" x 2" (44 x 51mm)
Cable Length	6' (3.0M) RG174		10' (3.5M) RG-58/U				
Connector	N Male	UHF Male	UHF in N Female out	UHF in N Female out	UHF in N Female out	UHF in N Female out	UHF in N Female out

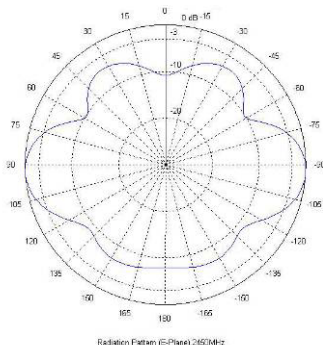


5.5dBi Mobile

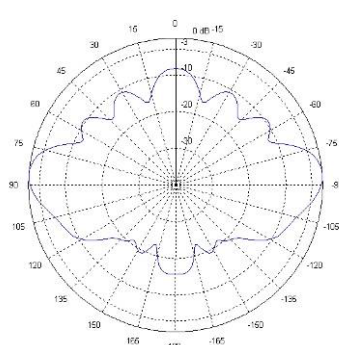


7dBi Mobile with
Magnetic Mount
(sold separately)

Antenna Patterns (E-Plane) at 2450Mhz



MA24-5



MA24-7



MM-SM-LP
Thru Hole Low
Profile Surface
Mount for Mobile
Antennas



MM-SM-B
Thru Hole Surface
Mount for Mobile
Antennas



MM-TM
Stainless Steel
Trunk Lid Mount
for Mobile
Antennas



MM-90
Magnetic Mount for 7dB
2.4GHz Antenna



MM-110
Large Magnetic Mount

Notes:

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System Ordering:

MA24-5 NM	5.5dBi 2.4GHz Integrated MagMount Mobile - N Male Connector.
MA24-5 NF	5.5dBi 2.4GHz Integrated MagMount Mobile - N Female Connector
MA24-5 RSMA	5.5dBi 2.4GHz Integrated MagMount Mobile – RP SMA Connector (Dlink, smartBridges, etc)
MA24-5 MC	5.5dBi 2.4GHz Integrated MagMount Mobile – MCCard Connector (Lucent, Orinoco, etc)
MA24-5 RTNC	5.5dBi 2.4GHz Integrated MagMount Mobile – Reverse TNC Connector (Linksys, Cisco, etc)
MA24-7	7dB 2.4GHz Mobile Antenna with UHF Connector
MM-90	3.5” Diameter Magnetic Mount, 10’ RG-58/U cable with N Female Connector
MM-110	4.3” Diameter Magnetic Mount, 10’ RG-58/U cable with N Female Connector
MM-TM	Trunk Lid Mount for Mobile Antennas, 10’ RG-58/U cable with N Female Connector
MM-SM-LP	Low Profile ThruHole Surface Mount for Mobile Antennas, 10’ RG-58/U cable with N Female Connector
MM-SM-B	ThruHole Surface Mount for Mobile Antennas, 10’ RG-58/U cable with N Female Connector

For further information contact:



Pacific Wireless

693 E Draper Heights Way Suite 210
Draper, UT 84020
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FAX (801) 572-3025
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WIFI-PLUS, Inc. ADVANCED MP ANTENNA SOLUTIONS

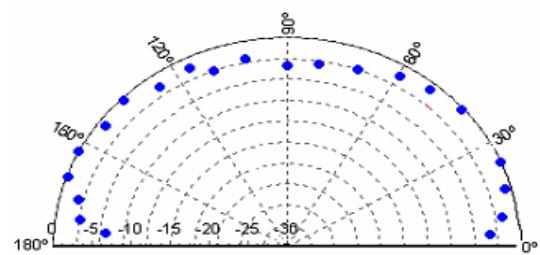
www.wifi-plus.com

330-273-3665

MP – OMNI 3 dBi WFP0200507 360 Degree Coverage Indoors or Out

The MP 5 dBi is a general use Omni workhorse. All Wifi-Plus MP-Technology antennas provide- Multi-Polarized/Multi-Plane/Multi-Path Technology, 3-D Radio Waves Science –provides in built spatial diversity. This antenna is ideal for indoor deployment or out. Can be connected to any access point, PCI card, or PCMCIA card that allows an external connection. Pigtail conversion may be necessary. The MP OMNI is very popular for mobile connectivity due to its small size and ease of mounting. It is also a Mesh Network favorite. Product is available with/ without mounting bracket.

Manufacturer	WIFI-PLUS
Model	MP-Tech. 3 dBi OMNI 2.4GHz 802.11 a ,b ,g
Type	Multi-Polarized Omni-Directional Antenna
Product Narrative	Multi-Polarized Highly effective patterning Flutter-reduction (Geometric Spatial Capture of Signal) Small size AP or CPE WWAN/WLAN/MESH Networks Outside/Inside applications
General Freq. (MHz)	2400-2500 GHz
Bandwidth (MHz)	100
Gain (dBi)	3
Max. Input Power (Watts)	100
Polarization	MULTI-POLARIZED
H. Beam width	360 degrees
Vert. Beam width	180 degrees
VSWR	1:1-1.8:1
Overall Size	3.5" diam. X 1.5" ht.
Weight	10 oz.
Termination	N-female
Mounting Style	Multiple incl. wall/mast, ceiling and vehicle
MSRP	
Warranty	1 yr.



**Elevation Coordinate Pattern Plot
WiFi-Plus MP-Tech. 5 dBi OMNI**

Pattern same for other MP-Tech. OMNI models as:
750-950 MHz OMNI Antenna
EXTREME Continuous Band 700MHz-6GHz OMNI Antenna
SUPER-M V/U Antenna
XM-Radio 2.3GHz Antenna