



OD9 Mounted
& Reflector Kit

OD9, OD12, OD6 Shown

OD Series Omni Antenna

For WLAN, Video and Data Systems

- 3 dBi, 6 dBi, 9 dBi & 12 dBi antennas provide uniform omni coverage
- Unique design allows economical build out
- Mounting kit includes all hardware needed
- Reflector option provides directional beamshaping & increased performance

The OD Series Antennas are optimized for use in a wide variety of wireless systems. Typical uses include WLAN access points or bridge (802.11b/g), and surveillance transmitters.

These antennas consist of a collinear array with elements stacked vertically. Unique phasing cancels out-of-phase current distribution, improving system performance. This design maintains an omni pattern in the horizontal plane. The OD Series are free space antennas; no ground plane is required.

An option for the OD series is a reflector kit that beam shapes the omni pattern into a directional cardioid shape. This can result in improved directional gain, and isolation for reduced interference.

The low profile black radome (1" diameter) makes the antennas durable and rugged. They can withstand the harshest environments of snow, wind, rain and ice. The feed assembly is made of precision machined aluminum components and is irridited for weather protection. The antennas comes with all the hardware needed to install it to a mast. The OD antennas normally terminate with a

female N connector. Optional models include pigtail cable with connector. For ISM, Part 15 compliant connectors are available (reverse polarized), please consult factory.

Model Numbers

Model	Freq.(MHz)	Gain	Applications
OD3-2400	2400-2485	3 dBi	WLAN, ISM, Video
OD6-2400	2400-2485	6 dBi	WLAN, ISM, Video
OD9-2400	2400-2485	9 dBi	WLAN, ISM, Video
OD12-2400	2400-2485	12 dBi	WLAN, ISM, Video

For pigtail cable options and special frequencies, please consult factory for latest model numbers and configurations.

Options

Options	Model
Add-on kit for 6 dBi models	ODR6-Kit
Add-on kit for 9 dBi models	ODR9-Kit
Add-on kit for 12 dBi models	ODR12-Kit
Rev TNC with 1 ft Cable option	add -PTA to OD model
Rev BNC with 4 ft Cable option	add -PT2 to OD model

Specifications

Frequency & Gain:	See above	Length/Weight:	
Bandwidth @2:1 VSWR:	See above	3 dBi Models	16 inches, 1.5 lbs
Nominal Impedance:	50 ohms	6 dBi Models	19 inches, 1.5 lbs
Max. Power (continuous):	100 watts	9 dBi Models	27 inches, 2.0 lbs
Vertical Beamwidth (-3 dB point):		12 dBi Model	41 inches, 2.5 lbs
3 dBi Model	55 degrees	OD Series Interface:	N female connector
6 dBi Model	25 degrees	Mounting Kit:	Mast mount kit included
9 dBi Model	14 degrees	Mounting Dimensions:	Use mast up to 2" OD
12 dBi Model	7 degrees	Material:	Polycarbonate with aluminum body, fiberglass radome on OD12 with aluminum body
Wind Loading (flat plate equiv.):	30-40 sq. inches	Options:	Reflector Option Kit
Rated Wind Velocity:	100+ mph		Pigtail Cable Option
Lightning Protection:	External suggested		Part 15 Reverse Connectors
Antenna Diameter:	1", main mast		


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2400-2500 MHz

15 dBi Directional Yagi Antenna

Cushcraft's reliable radome enclosed Yagi antennas are designed to offer both point to point link capabilities as well as extremely narrow system coverage capabilities. Typical applications include donor antennas for the PCS or DCS band and link antennas for 2.4 GHz ISM band operation.

Model	PC2415N
3dB Beamwidth, Degrees E-Plane	30
3dB Beamwidth, Degrees H-Plane	34
Enclosure Material	UV Stable Polycarbonate
Frequency, MHz	2400-2500
Front to Back Ratio, dB	18
Gain dBd	13.9
Impedance (ohms)	50
Mast Dia in(cm)	2-1/8(5.4)
Mount Style	Mast w/U-Bolts
No. Elements	15
RF Connector(f)	N
Ultralink Cable in.(cm)	12(30.5)
Weight, lb(kg)	1 (.455)



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2.4 GHz Subscriber Antenna

MTI PART NUMBER		MT 364023/N		
Type	MMDS Subscriber Antenna			
REGULATORY COMPLIANCE	ETSI EN 301 525 V1.1.1 (2000-06)			
ELECTRICAL				
FREQUENCY RANGE	2.4 2.7 GHz			
GAIN	15.5 dBi (min)	at 2.4 - 2.5 GHz		
	16 dBi (min)	at 2.5 - 2.7 GHz		
VSWR	1.5 :1 (max)			
3 dB BEAMWIDTH	20 (typ)			
POLARIZATION	Linear (Vertical or Horizontal)			
SIDELOBES LEVEL	ETSI EN 301 525 V1.1.1 TS2			
	-13dB (max)			
	ETSI EN 301 525 V1.1.1 TS2			
CROSS POLARIZATION	-20 dB (max)			
F/B RATIO	-28 dB (max)			
INPUT IMPEDANCE	50 (ohm)			
INPUT POWER	6W			
LIGHTNING PROTECTION	DC Grounded			
MECHANICAL				
DIMENSIONS (LxWxD)	305 x 305 x 25 mm (max)			
WEIGHT	1.5 (kgs) (max)			
CONNECTOR	N-Type Female			
RADOME	Plastic			
BASE PLATE	Aluminum with chemical conversion coating			
MOUNTING KIT	MT-50001			
ENVIRONMENTAL				
TEST	STANDARD	DURATION	TEMPERATURE	NOTES
LOW TEMPERATURE	IEC 68-2-1	72 h	-	-
HIGH TEMPERATURE	IEC 68-2-2	72 h	-	-
TEMP. CYCLING	IEC 68-2-14	1 h	-	3 Cycles
VIBRATION	IEC 60721-3-4	30 min/axis	-	Random 4M3
SHOCK MECHANICAL	IEC 60721-3-4	-	-	4M3
HUMIDITY	ETSI EN300-2-4 T4.1E	144 h	-	95%
WATER TIGHTNESS	IEC 529	-	-	IP67
SOLAR RADIATION	ASTM G53	1000 h	-	-
SALT SPRAY	IEC 68-2-11 Ka	500 h	-	-
ICE AND SNOW	-	-	-	25mm Radial

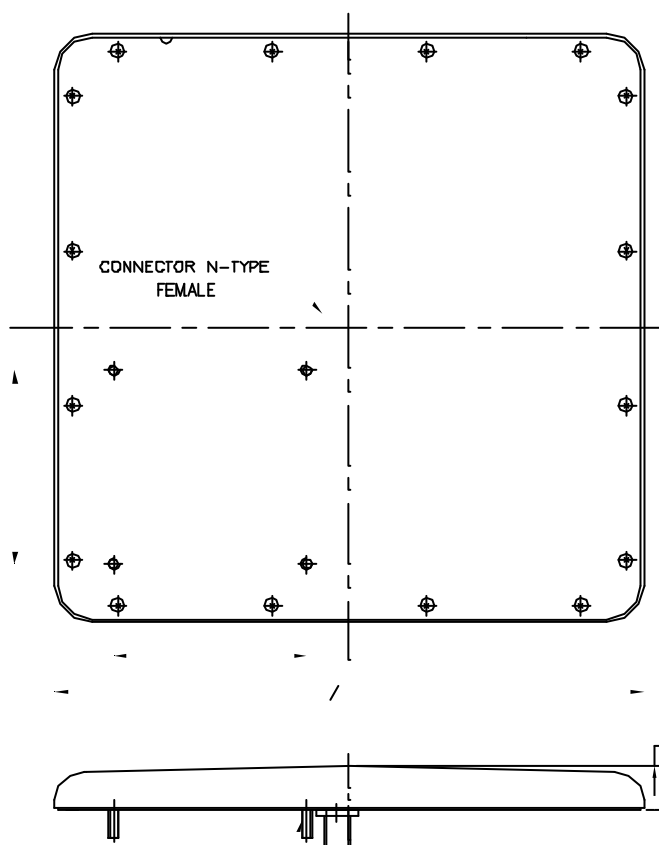
WIND SPEED
SURVIVAL
OPERATION

-
-

-
-

-
-

220 Km/h
160 Km/h



MT-30081/A



Pacific Wireless

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PAWDC24

DATA SHEET

Directional Antenna System

1700 to 2700 MHz Operation

Features

- Small Size/Reduced Shipping Cost
- 50 Ω Passive Feed Dipole
- Integrated Type N Female Connector or 24" pigtail with N Male or N Female Connector
- 24 dBi Antenna Gain; Horizontal or Vertical Polarity
- Rugged, Lightweight and Waterproof
- Heavy Duty Adjustable Tilt Bracket
- 2-Piece Powder Coat Painted Die Cast Aluminum



24dBi Antenna System*

Applications

- 2.4 GHz ISM Band Applications
- Wireless Internet Access
- Wireless Bridges
- Point to Point Repeaters
- MMDS Applications
- Streaming Video

Description

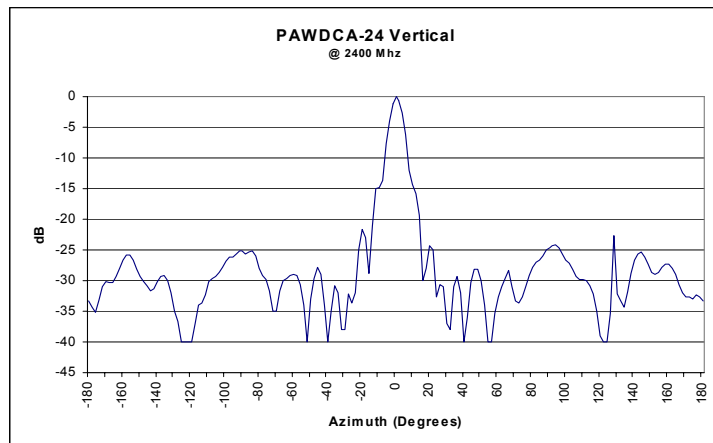
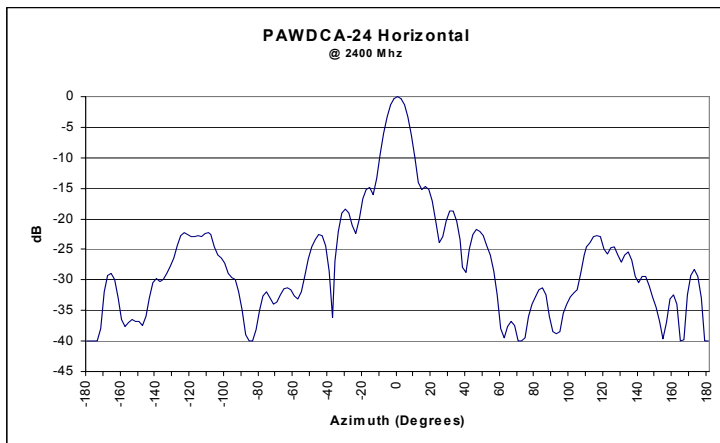
The PAWDC24 is a directional antenna system, which incorporates a 2-piece aluminum die cast parabolic grid type antenna reflector with the PMPF, patented 50-ohm passive feed dipole. Dipoles come in 2 basic configurations, PMPF-xx with integral N type Female connector and PMPF-xxP with 24" pigtail equipped with an N type Male connector or PMPF-xxPF with an N type Female Connector. Installation is simple with the Pacific Wireless adjustable tilt "Heavy Duty" bracket that comes standard. The bracket accommodates poles from 1" up to 2.5" OD. Brackets are full galvanized for extreme corrosion protection and each reflector comes complete with stainless steel hardware and complete assembly instructions.

Specifications

Parameter	Model	Min	Typ	Max	Units
Frequency Range	PMPF-1 PMPF-2 PMPF-19 PMPF-18 PMPF-18S	2300 2500 1880 1750 1700		2500 2685 1930 1850 1850	MHz
Gain			24		dBi
Input Return Loss (S_{11})				-14	dB
VSWR				1.5:1	
3dB Beam Angle			8		deg
Cross Pole			26		dB
Front to Back		24			dB
Side Lobe				-20	dB
Impedance			50		OHM
Input Power				50	W
Focal Length			16 (40.6)		Inch (cm)
Dimension (LxW)			42 (107) x 24 (61)		Inch (cm)
Weight			5.5 (2)		Lbs (Kgs)
Pole Diameter (OD)		1 (25)		2.5 (60)	Inch (mm)
Operating Temperature		-45		+70	Deg C
Wind Loading: 100MPH 140MPH 100MPH: 1/2" Radial Ice				96 (36) 188 (70) 176 (66)	Lbs (Kgs)

*Note: Pacific Wireless does not supply the mounting pole or coax cable. Antenna system assembly is required.

Integrated Antenna Patterns



Typical azimuth plots using PMPF-1 Dipole

Standard Packaging:

Model	Units per box	L x W x H	Weight	Dimensional Weight (For Air Freight Calculations)
PAWDC24	5 Pack	25" x 22" x 9" (64 x 56 x 23cm)	45Lbs. (17Kgs)	45Lbs. (17Kgs)

Notes:

- Antenna is a 2-piece design requiring assembly. Mounting brackets are disassembled from the antenna reflector so the reflectors stack compactly, which saves volume in both shipping and warehouse storage.
- A complete antenna system includes one PMPF-xx, one antenna reflector assembly and adjustable tilt bracket with all necessary hardware for pole mounting.
- All shipments F.O.B. Pacific Wireless in Draper, UT 84020
- All antennas carry a 2 Year Warranty

System Ordering: PAWDC24-HD-PF□□□□

Antenna Gain

Bracket Type

HD – Heavy Duty

Feed Type

Blank – No Feed

PF1 – PMPF-1 2.4 GHz ISM Band

PF2 – PMPF-2 2.5 GHz MMDS Band

PF18 – PMPF-18 1.75 to 1.85 GHz

PF18S – PMPF-18S 1.70 to 1.85 GHz

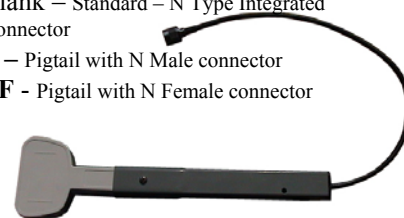
PF19 – PMPF-19 1.88 to 1.93 GHz DECT

Feed Option

Blank – Standard – N Type Integrated Connector

P – Pigtail with N Male connector

PF – Pigtail with N Female connector



For further information contact:



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