

Directional & Omni-directional MIMO Antennas, WiFi



Directional Antennas



Omni-directional Antennas

MIMO (Multiple-Input-Multiple-Output) systems, also known as spatial multiplexing, transmit different data on different antenna elements. The data is decoded and combined at the receive end. The net result is greater data throughput and improved bandwidth efficiency.

Mobile Mark's new MIMO (Multiple-Input-Multiple-Output) Site Antennas provide three cable feeds, each with identical frequency coverage. Separate antenna elements are housed within a compact rugged radome. Each element is fed by a different cable; each cable covers the entire bandwidth specified.

- Multiple-Input-Multiple-Output antenna design
- Each MIMO antenna is configured with 3 connectors
- Directional and Omni-directional antennas
- Passed Industry and Military shock and vibration standards

The PND Series Panel Antenna provides 8 dBi gain in a compact radome measuring 12.5" tall x 3" wide x 1.25" deep. The three cables exit from the back of antenna. The DOD Series Omni-directional Antenna provides 5 dBi gain in a radome measuring just under 30" tall x 1" in diameter. The cables exiting the base of the antenna are typically staggered at 9", 12" and 15" in length, for easy handling during installation.

A well designed antenna is an important part of a complete MIMO system. Mobile Mark's MIMO Site Antennas meet the electrical and mechanical standards needed for consistent coverage in tough settings.

Model Numbers

Model	# cables	Frequency bands
PND8-2400/5500	3	2.4-2.5 GHz & 4.9-6.0 GHz

Model Numbers

Model	# cables	Frequency bands
DOD5-2400/5500	3	2.4-2.5 GHz & 5150-5925 MHz

Specifications

Frequency:	
PND8	2.4-2.5 GHz & 4.9-6.0 GHz
DOD5	2.4-2.5 GHz & 5150-5925 MHz
Gain:	
PND8	8 dBi all bands
DOD5	5 dBi all bands
VSWR:	2:1 max over range
Isolation:	>20 dB between elements
Impedance:	50 Ohms (nominal)
Max power:	25 watt
Beamwidth:	
2.4-2.5 GHz	PND8 90° Az, 60° El
	DOD5 40° El
4.9-6.0 GHz	PND8 120° Az, 30° El
	DOD5 45° El
Operating Temp:	-40 to +85° C
Cable jumpers:	Available separately

Lightning protection:	External recommended
Case:	
PND8	12.5H x 3"W x 1.25" D (32 cm x 8 cm x 3 cm)
DOD5	29 5/8"H x 1"D (75 cm x 3 cm)
Material:	
PND8	UV resistant ASA, Color: White
DOD5	Fiberglass, Color: Black
Mounting:	Mounts to up to 2 1/2" OD Pipe, U-bolt kit included
PND Adjustment:	Vertical tilt adjustment up to 45°
Connectors:	
PND	Three (3) SMA Bulkhead built-in
DOD	3 Cables 9", 12", 15" w/SMA Plug (Male), custom lengths available
Shock and Vibration:	EN 300 019-2-4, IEC 60068