

# DATASHEET

## Multi-Band 6dBi Omni Dual MIMO antenna A2506NJ6-O

The A2506NJ6-O 6 dBi outdoor Multiple-Input, Multiple-Output (MIMO) omnidirectional antenna is designed to work with ProSoft Technology® RadioLinx™ 802.11n radios. This antenna features three integrated 2.4 GHz omni antennas and three integrated 5 GHz omni antennas in one fiberglass enclosure, making it an ideal antenna to support demanding outdoor applications.



### Features

### Benefits

MIMO (Multiple-Input, Multiple-Output)

- ◆ Six antennas within a single enclosure
- ◆ Send more data simultaneously, or
- ◆ Improve the ability of the radio to receive weak signals, therefore giving better range

Multi-Band

- ◆ Separate 2.4 GHz and 5 GHz antennas for single or dual radio operation
- ◆ Maximizes 802.11n throughput through channel bonding using multiple frequency ranges
- ◆ Allows 802.11n radio to determine optimal rate to use based on environmental conditions and endpoint capabilities

Omnidirectional

- ◆ Link multiple directional antennas in outdoor point-to-multipoint communication systems
- ◆ Cover large areas efficiently with 360-degree signal pattern
- ◆ Signal available to all radios within range

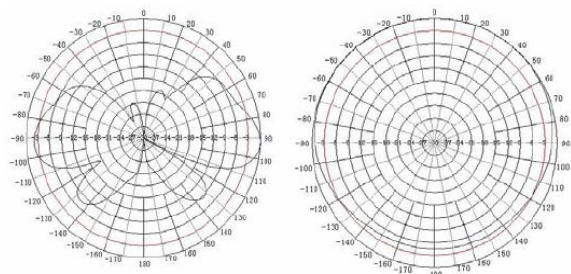
### Compatibility

All antennas have been tested for compatibility with RadioLinx products. Please see the ProSoft Wireless Designer (PWD) configuration tool to assist you in choosing the best antenna for your application.

## Specifications

Frequency Range	2.4 GHz to 2.5 GHz and 5.15 GHz to 5.85 GHz
Bandwidth	100 MHz at 2.4 GHz, typical 700 MHz at 5 GHz, typical
Gain	6 dBi
Vertical Beamwidth	40°
Horizontal Beamwidth	360°
VSWR	≤ 1.5 at 2.4 GHz ≤ 2.0 at 5 GHz
Nominal Impedance	50 Ohms
Polarization	Vertical
Isolation	≥ 25 dB
Electrical Downtilt	≤ 5°
Max Power	20 Watts
Connector	N Jack with 36" Pigtail (x6)
Dimensions	6.0 in x 7.1 in ( 152.4 mm x 180.4 mm)
Weight	3.74 lbs (1.7 kg)
Mast Mount Diameter	1.57 in to 1.97 in (39.9 mm to 50 mm)
Operating Temperature	-22°F to +158°F (-30° C to 70° C)
Wind Loading	134 miles per hour

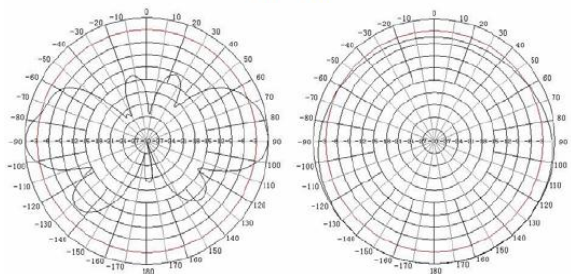
## Patterns



E-Plane Pattern

H-Plane Pattern

2.4 GHz



E-Plane Pattern

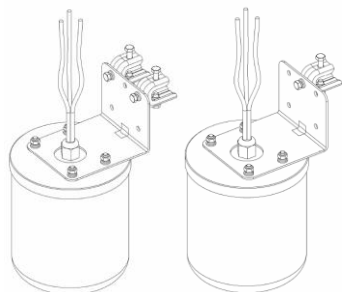
H-Plane Pattern

5 GHz

## Mounting Information

Double Beam Clamp  
Sample Installation Image

Single Beam Clamp  
Sample Installation Image



## Additional Products

ProSoft Technology® offers a full complement of hardware and software solutions for a wide variety of industrial communication platforms. For a complete list of products, visit our web site at: [www.prosoft-technology.com](http://www.prosoft-technology.com)

## Ordering Information

To order this product, please use the following:

## Multi-Band 6dBi Omni Dual MIMO antenna

A2506NJ6-O

To place an order, please contact your local ProSoft Technology distributor. For a list of ProSoft Technology distributors near you, go to: [www.prosoft-technology.com](http://www.prosoft-technology.com) and select Distributors from the menu.

Place your order by email or fax to:

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