

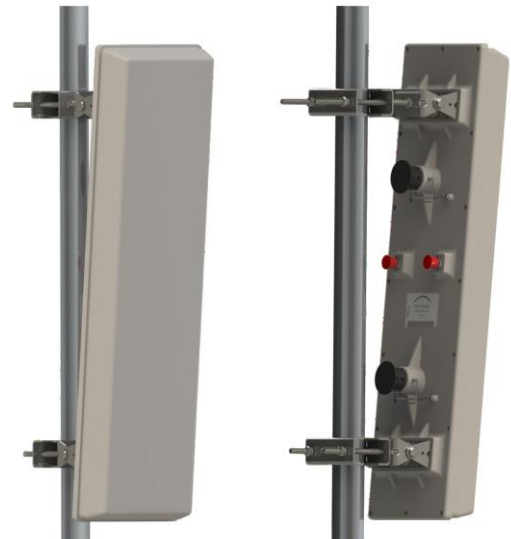
# DATASHEET

## Sector Antenna A2416NJ-DP-B

The A2416NJ-DP-B Sector Antenna is a variable beamwidth sector antenna with dual (horizontal and vertical) polarization. Designed to operate in the 2.3 to 2.5 GHz range, it can be adjusted to 60°, 90°, or 120° beamwidths. It has a mechanical slide for easy field adjustments with a rugged design for outdoor use. It is a high gain antenna in a compact package.

The A2416NJ-DP-B Sector Antenna can be installed as a polarization diversity antenna when the signals from the horizontal and vertical polarization ports are combined by the receiver to improve signal quality in multipath environments. The antenna can also be installed with vertical or horizontal polarization by connecting only one of the antenna ports (the orientation of the antenna must match the selected antenna polarization).

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



### Features

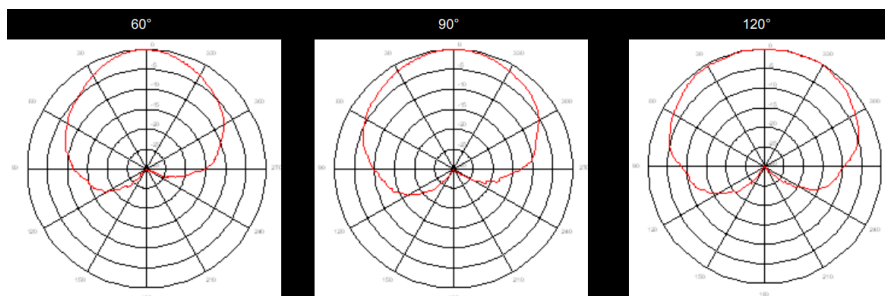
- ❖ Single antenna with adjustable beamwidths
  - ❖ Wideband frequency performance
  - ❖ 16 dBi to 18 dBi gain (depending on selected beamwidth)
  - ❖ Dual polarization
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## Specifications

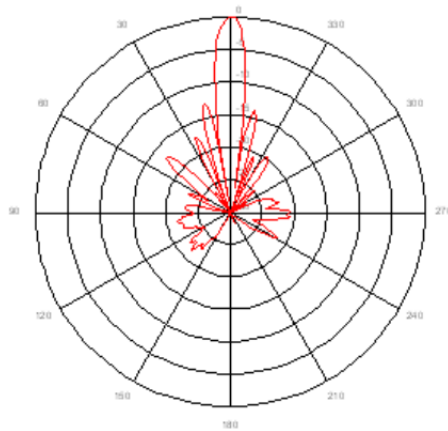
Specification	Description
Frequency Range	2.4 to 2.5 GHz
Horizontal Beamwidth	Selectable (with gain): 60°, 90°, or 120°
Gain	Varies with beamwidth: 18 dBi, 17 dBi, 16 dBi
Vertical Beamwidth	8°
Polarization	Dual Linear – Vertical and Horizontal
Connector	N Female (2) vertical, horizontal
Connector Position	Middle
VSWR 2.3 to 2.5 GHz	1.5:1 Typ
Length x Width x Depth	28 x 6.4 x 2.5 in. (71.12 x 16.25 x 6.35 cm) Excluding Bracket and Adjustment Slide
Weight	9 lbs (2.3 kg)
Radome	UV Stabilized ABS plastic, gray
Wind Survivability	125 mph (201 kph)
Wind Load	1.16 ft <sup>2</sup>
Operating Temperature	-49°F to 149°F (-45°C to 65°C)
Pole Mount Diameter Range	2.0 to 2.75 in (5.0 to 7.0 cm)
Environmental	IP65

## Patterns

RF Patterns Horizontal Cut, typ.



RF Patterns Vertical Cut, typ.



## 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 website at: [www.prosoft-technology.com](http://www.prosoft-technology.com)

## Ordering Information

To order this product, please use the following:

## Sector Antenna

A2416NJ-DP-B

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 *Where to Buy* from the menu.

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