

DATASHEET

2.4 GHz Directional 12dBi Panel MIMO antenna A2412NJ3-DP

The A2412NJ3-DP is specially designed for MIMO (Multi Input, Multi Output) applications. Triple Polarization antenna provides coverage of 2.3-2.7 GHz frequency band in a single antenna radome. Light weight, durable, UV protected radome ensures reliable indoor or outdoor performance.



Features	Benefits
MIMO (Multi Input, Multi Output)	◆ Three antennas within a single enclosure ◆ Send more data simultaneously, or ◆ Improve the ability of the radio to receive weak signals, therefore giving better range
Directional	◆ Allows increased performance on transmit and receive ◆ Focused signal reduces interference from unwanted sources ◆ Use on repeaters to maximize signal strength and reliability
Rugged and weatherproof	◆ Suitable for demanding indoor or outdoor applications ◆ Unobtrusive, aesthetically pleasing design ◆ Easy and flexible wall or mast-mounted installation
Backed by ProSoft Technology®	◆ 20-year history of delivering high-quality, reliable solutions designed with you in mind ◆ Free, unlimited, worldwide Technical Support by phone anytime for pre-sale, set-up, or troubleshooting support help you get going sooner and stay running longer ◆ Three-Year Warranty ensures reliability and protects against equipment failures ◆ Free ProSoft Software tools tightly integrated with our gateway hardware...a simple and quick, total solution to help you make our gateways fit your applications ◆ Indoor/outdoor radio network design assistance – accessory selection, path studies, and site survey

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

Electrical

Model	Vertical Polarization	Dual Slant Polarization
Frequency range	2.3 - 2.7 GHz	2.3 - 2.7 GHz
Gain	15 dBi $\pm$ 1 dBi	12 dBi $\pm$ 1 dBi
VSWR, max.	1.7:1	1.7:1
3 dB Beam-Width, H-Plane, typ.	37 °	38 °
3 dB Beam-Width, E-Plane, typ.	21 °	38 °
Side Lobes, min.	-12 dB	-12 dB
Polarization	Dual Slant $\pm$ 45° and Vertical	
Front to Back Ratio, min.	-30 dB	
Input power, max	10 Watt	
Input Impedance	50 Ohm	
Lightning Protection	DC Grounded	

Mechanical

Dimensions (HxWxD)	12"x 12"x 0.6" (305 x 305 x 15 mm)
Weight	3.3 lb (1.5 kg)
Connector	N-Female (x3)
Back Plane	Aluminum protected through chemical passivation
Radome	UV Protected Polycarbonate
Mount	Wall or Mast mount

Environmental

Operating Temperature Range	- 40°C to + 65°C
Vibration	According to IEC 60721-3-4
Wind Load	200 km/h (Survival)
Flammability	UL94
Water Proofing	IP-67
Humidity	ETS 300 019-1-4, EN 302 085 (Annex A.1.1)
Salt Fog	According to IEC 68-2-11

Specifications subject to change without notice



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

Ordering Information

To order this product, please use the following:

2.4 GHz Directional 12dBi Panel MIMO antenna

A2412NJ3-DP

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
and select Distributors from the menu.

Place your order by email or fax to:

North American / Latin American /
Asia Pacific
orders@prosoft-technology.com
fax to +1 661.716.5101

Europe / Middle East / Africa
europe@prosoft-technology.com
fax to +33 (0) 5.61.78.40.52

Copyright © 2010 ProSoft Technology, Inc., all rights reserved. February 23, 2010

Specifications subject to change without notice.