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Antenna 2.4GHz 2dBi Omni Directional w/ RP-SMA-male or SMA-male: Outdoor / Waterproof

Price: \$2.99

SKU: A2D2RAv3

Brand: Data Alliance

Availability: 0.04

Weight: 0.04 LBS

Right Angle & Straight Versions



*Right Angle or Straight:

- ☐ Right-Angle Fixed
- ☐ Straight

*RP-SMA or SMA connector:

- ☐ RP-SMA male
- ☐ SMA male

*Gain & VSWR:

- ☐ 2 dBi, VSWR <2.5
- ☐ 2.15 dBi, VSWR <1.5
- ☐ 1.75 dBi, VSWR <2.5

Quantity:

1

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DESCRIPTION RELATED PRODUCTS PRODUCT REVIEWS

Weatherproofed antenna for outdoor applications: All options on this page are waterproof / weatherproof.

• **Bottom section of antenna:** We have two options: Fixed-straight and 90-degree right-angled bottom section.

• **2dBi omni directional** radiates WiFi / wireless signal to high & low elevations in local area

• **The 2.15 dBi version (SKU A2D2RAv3) is the best value:** A very high-performance antenna with VSWR of less than 1.5 (lower is better - [Read about VSWR](#)).

This version is 110mm long.

• All versions on this page are 1/2 wave [dipole antennas](#)

Compatible with [Wireless Access Points](#) & other wireless devices that have [RP-SMA antenna jacks](#) **Omni antenna:** Radiates signal with a beam of 360 degrees; also receives signal from 360 degrees around it. This type of [omni-directional antenna](#) is called a [dipole antenna](#), sometimes called "rubber duck" [antenna](#).

Compatibility with wireless standards & applications: This [omni directional antenna's](#) range of frequency band compatibility in the [2.4 ~ 2.5GHz frequency band range](#), its [low broadband VSWR](#), and [impedance matching to 50 Ohm gear](#), makes it **suitable and compliant for all the following applications:**

- [IoT wireless](#) & [M2M](#): [Bluetooth](#), [ZigBee](#), and [ISM](#). Since it is [vertically polarized](#), it is compatible with many machine to machine communication applications, remote monitoring, and telemetry applications.
- [2.4GHz WiFi](#) applications: 802.11N, 802.11G, 802.11B
- **As client antenna:** Connect to access points in any direction. Portable size: Easily fits in laptop case
- **As access point antenna:** Provides signal to clients in all directions (360-degree horizontal [beamwidth](#))
- **Mounts directly onto RP-SMA (female) connector** of [access point](#), [wireless bridge](#), or client.

See image of radiation pattern of the [2dBi omnidirectional antenna](#) among images above.

- A low gain (2dBi) [omnidirectional antenna](#) like this provides a strong signal in every direction (including vertically)
- Intended for short range meshed networks and reaches everyone within its range.
- If you are in a building and need to cover the rooms around you then you are better off using a 2dBi dipole [antenna](#), as they make sure you cover everyone equally in all directions

SPECIFICATIONS:

- [Frequency](#) Range: 2400~2483.5MHz
- [Bandwidth](#): 83.5MHz
- [Polarization](#): Linear
- [Gain](#): A2D2 & A2D2RA: 2dBi | A2D2V2 and A2D2RAv2:1.75 dBi | A2D2RAv3:2.15 dBi
- [V.S.W.R.](#) (minimum): <2.5 | A2D2RAv3:< 1.5 (Lower VSWR is better <1.5 is an excellent [V.S.W.R](#) that translates to high performance.
- [Impedance](#): 50 Ohms
- [Operating temperature](#): -40 degrees Celsius to +85 Celsius
- [Vibration](#): 10 to 55Hz with 1.5mm amplitude 2 hours
- [ROHS 3 & REACH](#) compliant: Antenna, cable and connector are all compliant with ROHS 3 and REACH.

RP-SMA Connector Characteristics:

- RP-SMA = Reverse Polarity SMA. Also known as SMA-RP, SMA-R, SMA RP, SMA R.
- **RP-SMA and SMA gender is counter-intuitive:** Please observe picture & note it is correct. The gender is referring to the pins inside-not the threads. RP-SMA male has threads on inside. [More details regarding RP-SMA gender determination.](#)
- RP-SMA-male and [SMA](#) is also called "plug" and the respective [female connectors](#) are also called a "jack."
- RP-SMA is a round screw-type connectors, with medium-sized, threaded coupling connectors that are rated for [frequencies](#) from the lowest (DC) up to 18GHz.
- **Composition**
 - Center Contact: Beryllium Copper, [Gold Plated](#)
 - Crimp Female: Copper, Nickel Plated
 - Insulators: PTFE
- We offer an [RP-SMA wrench](#) to assist in installing antennas, cables and adapters with SMA or RP-SMA connector(s).
- RP-SMA-male [connector](#) fits items that have an [RP-SMA \(female\) jack/connector](#).

RELATED PRODUCTS & PAGES:

- [Magnetic bases that fit this antenna](#) and have antenna cables with various [connector-types](#)
- [Other Mounts & Brackets](#)
- [Antennas: How to choose](#)
- [Directional Antennas](#)
- [Omni-Directional Antennas](#)
- [Wireless Frequencies: 2.4GHz, 5GHz, 900MHz, WiMax](#)
- [RP-SMA Cables, Antennas and Connector](#)

All of our [antennas](#) pass QC test before we ship them.



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