



Home / Antennas / 2.4GHz WiFi, Bluetooth, ISM / Omni-Directional 2.4GHz WiFi Antennas
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](#), 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 wireless point 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 A2D2RAv3: 2.15 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_connector 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 Ferrule: 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 Connectors](#)

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