



Cisco Aironet 3.5-dBi Articulated Dipole Antenna (AIR-ANT5135D-R, AIR-ANT5135DG-R, and AIR-ANT5135DW-R)

This describes the Cisco Aironet 3.5-dBi articulated dipole antenna, and provides specifications and mounting instructions. The antenna operates in the 5 GHz frequency band and is designed for use with Cisco Aironet 5 GHz radio products using a reverse-polarity TNC (RP-TNC) connector. The three antennas covered in this document are electrically the same. They differ physically by the color of the radome, which is specified by the product part number shown in [Table 1](#).

Table 1 Antenna Radome Colors

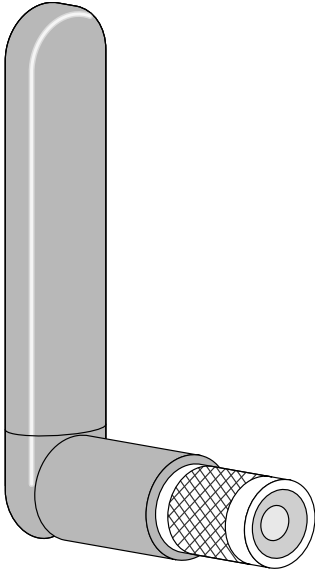
Antenna Part Numbers	Radome Color
AIR-ANT5135D-R, AIR-ANT5135DB-R	Black
AIR-ANT5135DG-R, AIR-ANT5135DG-R=	Gray
AIR-ANT5135DW-R, AIR-ANT5135DW-R=	White

These topics are discussed:

- [Technical Specifications, page 2](#)
- [Azimuth and Elevation Patterns, page 2](#)
- [System Requirements, page 3](#)
- [Features, page 3](#)
- [Installing the Antenna, page 3](#)
- [Obtaining Documentation and Submitting a Service Request, page 4](#)

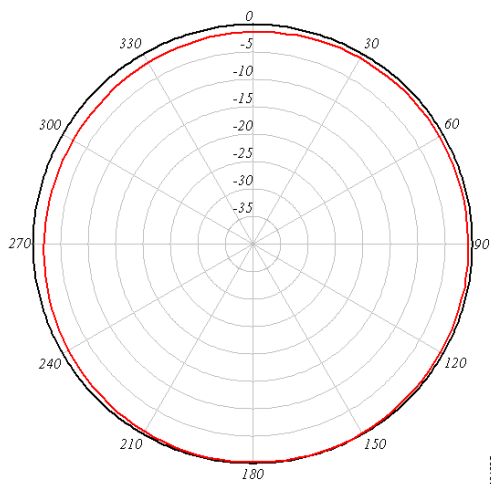
Technical Specifications

Technical Specifications

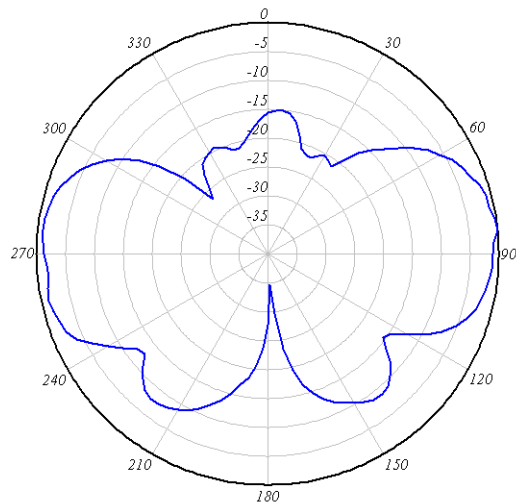
Antenna type	Dipole	
Operating frequency range	5150-5850 MHz	
Nominal input impedance	50 Ohms	
2:1 VSWR bandwidth	5150-5850 MHz	
Gain	3.5 dBi	
Polarization	Linear, vertical	
E-plane 3-dB beamwidth	40 degrees	
H-plane 3-dB beamwidth	Omni-directional	
Connector type	RP-TNC plug	
Length	5.3 in. (13.4 cm)	
Radome length	3.4 in. (8.6 cm)	
Width	0.62 in. (1.5 cm)	
Operating temperature	-22-158°F (-30-70°C)	
Storage temperature	-40-185°F (-40-85°C)	
Environment	Indoor, office	

Azimuth and Elevation Patterns

H-Plane Pattern



E-Plane Pattern

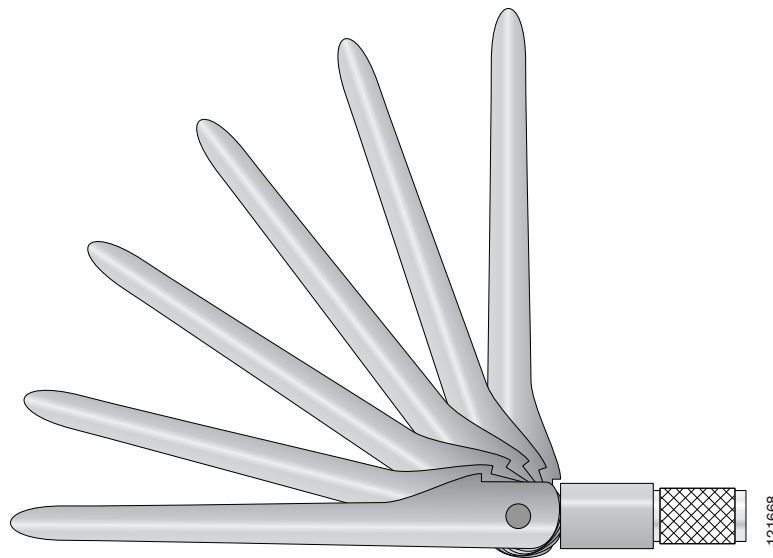


System Requirements

This antenna is designed for use with Cisco Aironet access points and bridges, but can be used with any 5 GHz Cisco Aironet radio device that uses RP-TNC connectors.

Features

The antenna has an articulated base that can be rotated 360 degrees at the connection point and from 0 to 90 degrees at its joint. The articulated base is shown in the following illustration.



Installing the Antenna

Caution This antenna operates in the 5 GHz frequency range. Connect this antenna to a 5 GHz antenna connector, which is identified by a blue dot. Connecting this antenna to a 2.4 GHz antenna connector degrades radio performance and could damage the radio.

To install the antenna:

1. Verify that the connector to which you are connecting the antenna is a 5-GHz connector (identified by a blue dot near the access point RP-TNC connector).
2. Align the antenna connector with the RP-TNC connector on the access point.
3. Engage the antenna connector threads with the RP-TNC connector.
4. Tighten the antenna hand tight.
5. Adjust the antenna's articulated mount to the desired position.

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see *What's New in Cisco Product Documentation* at: <http://www.cisco.com/c/en/us/td/docs/general/whatsnew/whatsnew.html>.

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- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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