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

This document describes and provides specifications for the 3.5-dBi articulated dipole antenna. 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

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Technical Specifications

Antenna type	Dipole
Operating frequency range	5150 to 5850 MHz
Nominal input impedance	50Ω
2:1 VSWR bandwidth	5150 to 5850 MHz
Gain	3.5 dBi
Polarization	Linear, vertical
E-plane 3-dB beamwidth	40 degrees
H-plane 3-dB beamwidth	Omnidirectional
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°F to 158°F (–30°C to 70°C)
Storage temperature	–40°F to 185°F (–40°C to 85°C)
Environment	Indoor, office
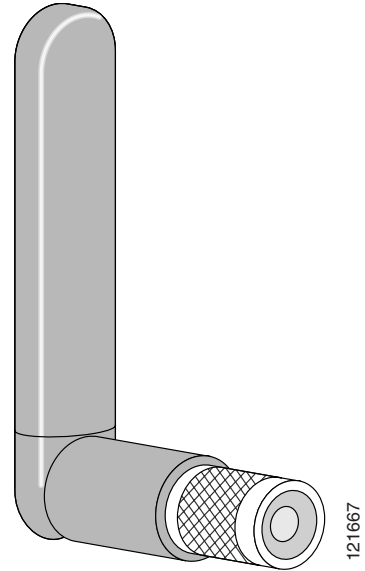
**H-Plane Pattern**
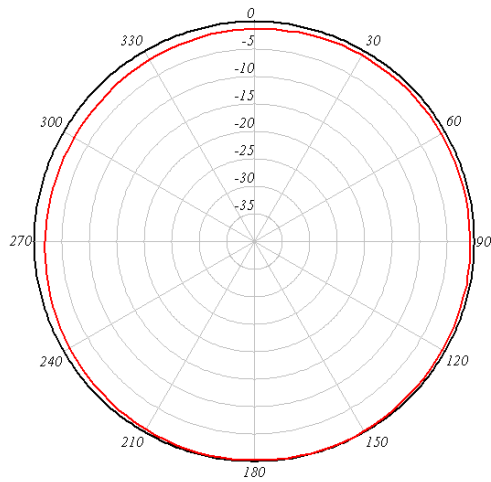
E-Plane Pattern
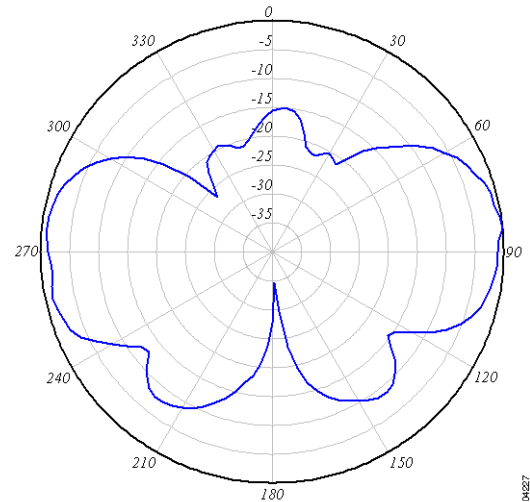
System Requirements

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.
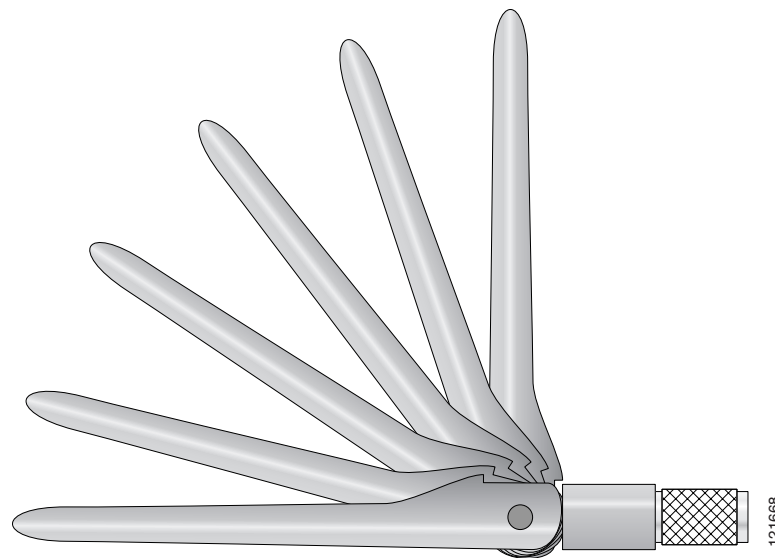
Installing the Antenna

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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 will degrade radio performance and could damage the radio.

Follow these steps to install the antenna.

Step 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).

Step 2 Align the antenna connector with the RP-TNC connector on the access point.

Step 3 Engage the antenna connector threads with the RP-TNC connector.

Step 4 Tighten the antenna hand tight.

Step 5 Adjust the antenna's articulated mount to the desired position.

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html

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