

# Cisco HGA9N High-Gain Omnidirectional Antenna for N-Type Connectors

## Cisco Small Business Wireless Antennas

Increase the Wireless Network Coverage Area for Your Small Business

### Highlights

- Improves signal strength to increase range and provide coverage in hard-to-reach areas
- Weatherproof, lightning-protected casing for safe deployment on the exterior of your building
- Easy installation, with no software or configuration required

**Figure 1.** Cisco HGA9N High-Gain Omnidirectional Antenna for N-Type Connectors



### Product Overview

Use the Cisco® HGA9N High-Gain Omnidirectional Antenna for N-Type Connectors (Figure 1) to increase the range of your wireless network. Attach the antenna to the exterior access point to increase both the effective strength of the outgoing signals and the receive sensitivity of the incoming signals.

The added signal strength and sensitivity also improve midrange communication reliability, because every packet comes through loud and clear, reducing retransmissions due to weak signal reception.

The 9-dBi signal strength allows the signals to travel farther and provides better signal detection in a 360-degree radius.

The weatherproof housing is able to withstand harsh outdoor conditions. The antenna also includes a lightning surge protector, mounting kit, and cable.

## Features

- National Electrical Manufacturers Association (NEMA) rated, lightning-protected, weatherproof housing
- 9-dBi omnidirectional antenna gives clients unconstrained access
- Easy to install - no configuration necessary

## Specifications

Table 1 gives the specifications, package contents, and minimum requirements for the Cisco HGA9N High-Gain Omnidirectional Antenna for N-Type Connectors.

**Table 1.** Specifications for the Cisco HGA9N High-Gain Omnidirectional Antenna for N-Type Connectors

Specifications	
<b>Ports</b>	1 N-type female connector
<b>Cabling type</b>	Coax: 50-ohm impedance
Electrical Specifications	
<b>Frequency range</b>	2400 MHz to 2500 MHz
<b>Gain</b>	9 dBi
<b>Voltage standing wave ratio (VSWR)</b>	1.92 : 1 max
<b>Polarization</b>	Linear, vertical
<b>Half-power beamwidth (HPBW): horizontal</b>	360°
<b>HPBW: vertical</b>	11°
<b>Maximum power</b>	4W
<b>Impedance</b>	50 ohms
<b>Range</b>	Maximum outdoor range:* 120 m (0.078 mi) at 54 Mbps, 880 m (0.55 mi) at 11 Mbps *Range estimation is based on 1 Cisco WAP200E Access Point with Cisco HGA9N antenna connecting to wireless client with 0-dBi antenna under ideal line-of-sight conditions
Environmental	
<b>Dimensions W x H x D</b>	2.95 x 24.61 x 2.20 in. (75 x 625 x 56 mm)
<b>Unit weight</b>	0.44 lb (0.2 kg)
<b>Mounting options</b>	Mounting kit provided
<b>Certification</b>	FCC, IC
<b>Operating temperature</b>	-22° to 176°F (-30° to 80°C)
<b>Storage temperature</b>	-22° to 176°F (-30° to 80°C)
<b>Operating humidity</b>	5% to 95% noncondensing
<b>Storage humidity</b>	5% to 95% noncondensing
Package Contents	
	<ul style="list-style-type: none"> <li>• Antenna body</li> <li>• Antenna cable</li> <li>• Lightning protector</li> <li>• User guide on CD</li> <li>• Quick installation guide</li> </ul>
Minimum Requirements	
	<ul style="list-style-type: none"> <li>• Cisco WAP200E Access Point</li> </ul>
Product Warranty	
	90-day limited hardware warranty with return to factory replacement

## Cisco Limited Warranty for Cisco Small Business Series Products

This Cisco Small Business product comes with a 90-day limited hardware warranty with return to factory replacement. In addition, Cisco offers software application updates for bug fixes and telephone technical support at no charge for the first 12 months following the date of purchase. To download software updates, go to: <http://www.cisco.com/go/smallbiz>.

Product warranty terms and other information applicable to Cisco products are available at <http://www.cisco.com/go/warranty>.

### For More Information

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