Cisco Aironet Omnidirectional Antenna (AIR-ANT-SE-WiFI-O)

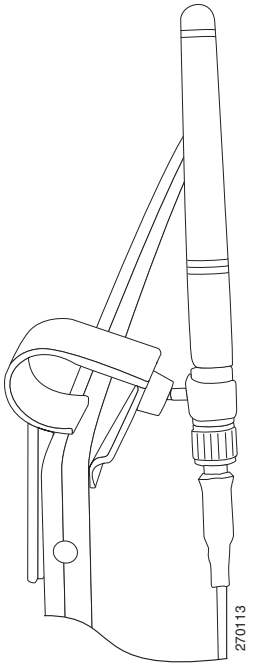
This document describes the Cisco Aironet AIR-ANT-SE-WiFI-O Antenna and provides instructions for mounting it. The antenna operates in the 2.4-GHz and 5-GHz frequency bands and is designed for use with Cisco Spectrum Expert spectrum analyzer software. The antenna connects to the Cisco Spectrum Expert Sensor Wi-Fi card (hereafter referred to as the sensor card). The antenna's omnidirectional qualities provide RF detection in all directions from the antenna. The antenna can be useful with all ISMS mobile features, but is especially useful in detecting and identifying RF devices

The following information is provided in this document.

Americas Headquarters:
Cisco Systems, Inc., 170 West Tasman Drive, San Jose, CA 95134-1706 USA

Technical Specifications

Antenna type	Dual band dipole, omnidirectional
Operating frequency range	2400–2500 MHz 4900–5900 MHz
Nominal input impedance	50 Ohms
VSWR	2:1 all bands
Peak gain (2400–2500 MHz)	2-dBi
Peak gain (4900–5900 MHz)	3-dBi
Polarization	Linear, vertical
Length	4.5 in (11.4 cm)
Diameter	2.875 in (7.302 cm)
Cable	LMR-100
Connector	RP-SMA/MMCX
Cable length	24-in. (60.9 cm)



System Requirements

This antenna is designed for use with the Cisco Spectrum Expert spectrum analyzer application only. The antenna is not designed for use with access points.

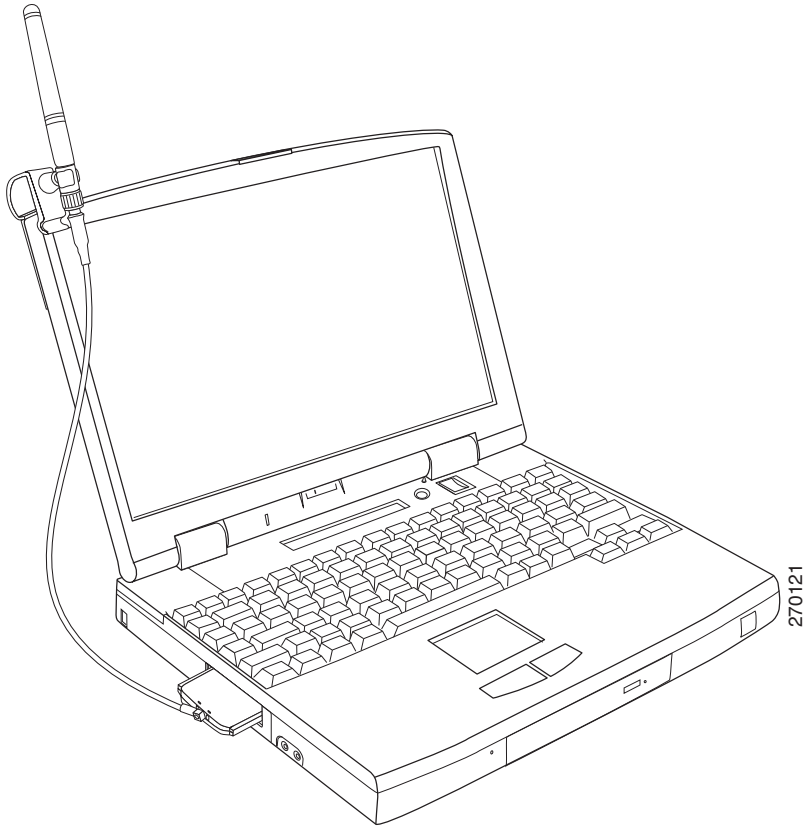
Installation Notes

The antenna is designed to connect to a dedicated antenna port on the Cisco sensor card. No special tools are required to install the antenna.

Installing and Using the Antenna

A typical laptop computer installation is shown in Figure 1.

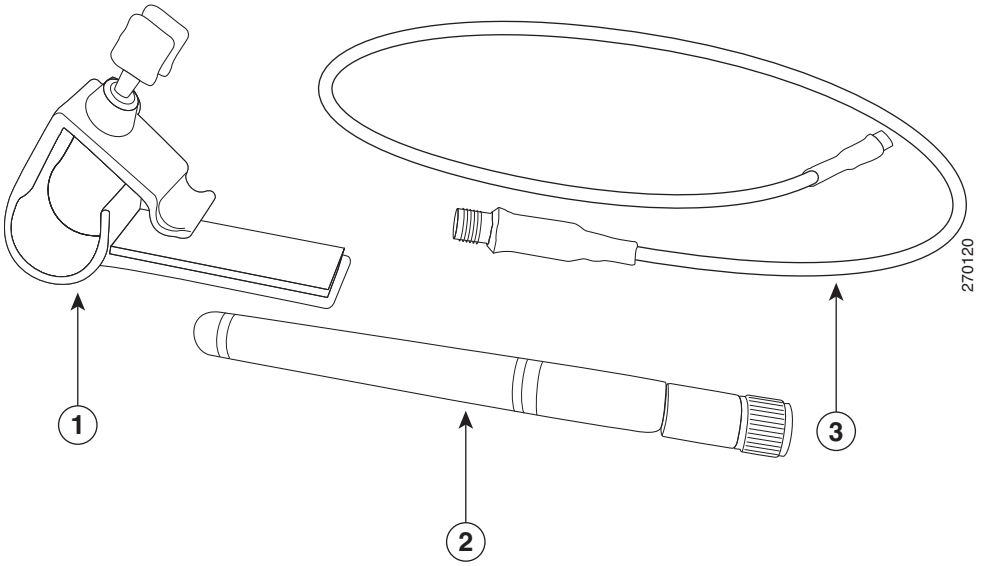
Figure 1 Typical Laptop Computer Installation



Follow these steps to connect the antenna to your laptop computer.

Step 1 Verify that the contents of the omnidirectional antenna kit is complete as shown in Figure 2

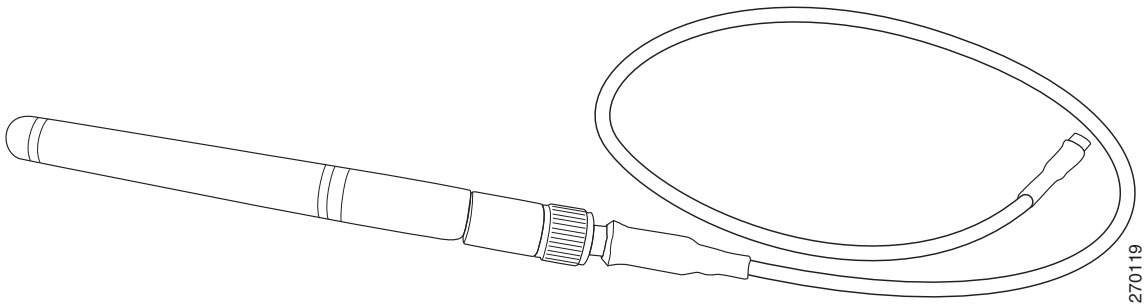
Figure 2 Omnidirectional Antenna Kit Contents



1	Antenna mounting clip	**3**	Antenna cable
2	Antenna		

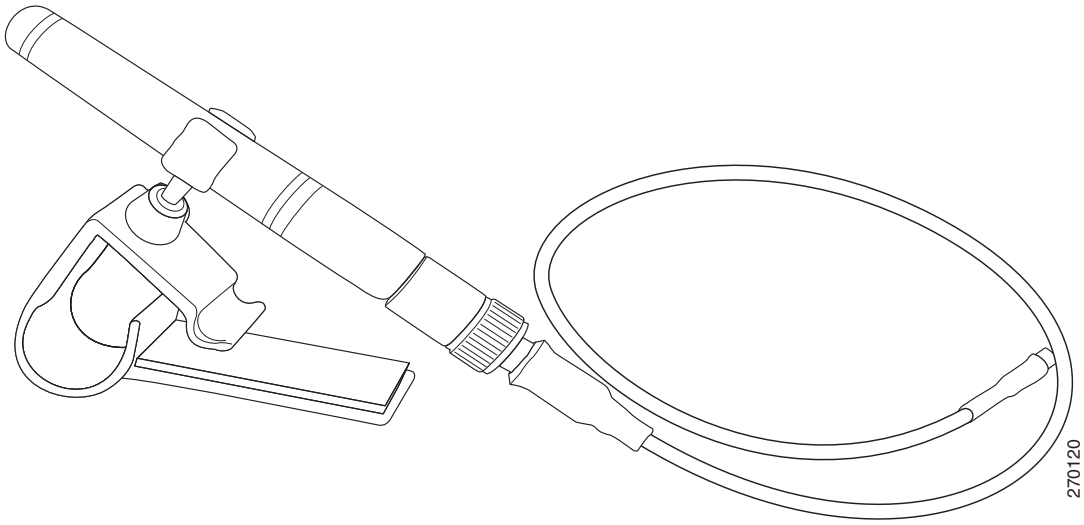
Step 2 Connect the antenna cable to the antenna as shown in Figure 3. Make the connection hand tight.

Figure 3 Connecting the Antenna Cable to the Antenna



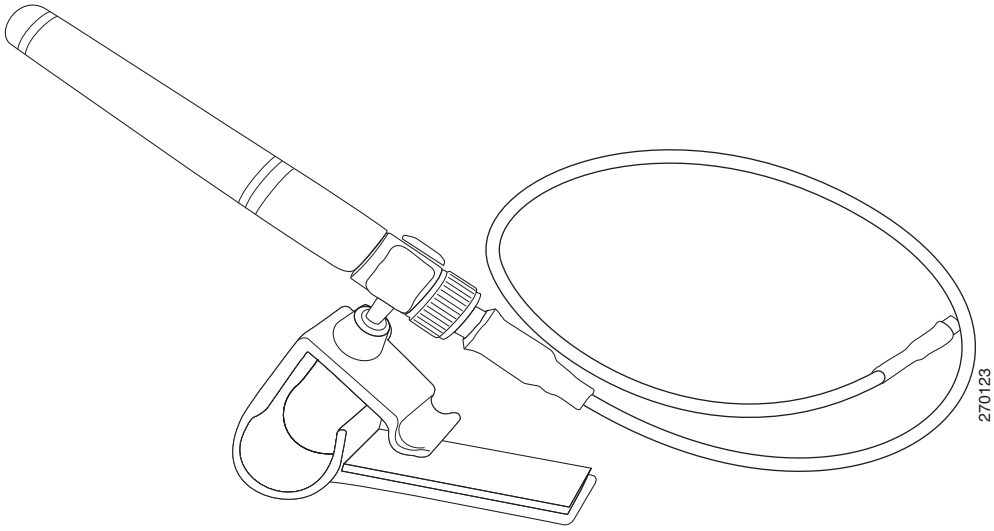
Step 3 Insert the antenna into the antenna holder on the antenna clip as shown in Figure 4.

Figure 4 Inserting the Antenna into the Antenna Clip



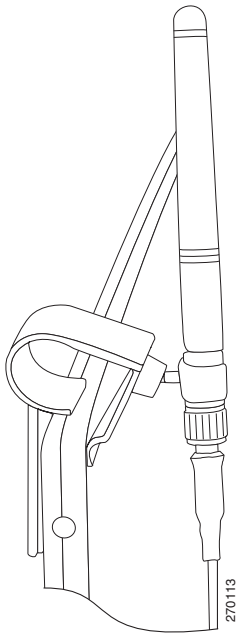
Step 4 Slide the antenna into the antenna holder as far as it will go as shown in Figure 5.

Figure 5 Sliding the Antenna into the Antenna Holder



Step 5 Attach the antenna clip to your laptop computer cover as shown in Figure 6.

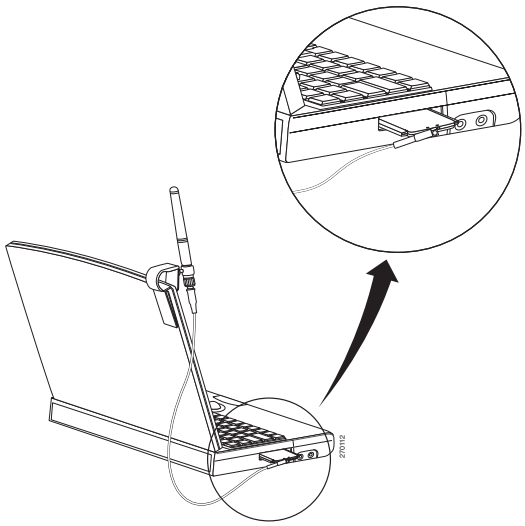
Figure 6 Attaching the Antenna Clip to a Laptop Computer Cover



Note Before completing the following steps, you must have installed and configured Cisco Spectrum Expert software and the sensor card on your laptop. The sensor card should be inserted in a PCMCIA slot before continuing the installation.

Step 6 Connect the antenna cable to the sensor card as shown in

Figure 7 Connecting the Antenna Cable to the Sensor Card



Step 7 Boot your laptop computer and start the Cisco Spectrum Expert software.

Step 8 Refer to your Cisco Spectrum Expert software documentation for information about detecting and identifying signals.

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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