

# Cisco Aironet 2.4-GHz/5-GHz MIMO 4-Element Patch Antenna (AIR-ANT2566P4W-R and AIR-ANT2566P4W-RS)

---

**Last Updated:** May 06, 2022

This document outlines the specifications for the Cisco Aironet 2.4-GHz/5-GHz MIMO 4-Element Patch Antennas (AIR-ANT2566P4W-R and AIR-ANT2566P4W-RS) and provides mounting instructions. Both antennas operate in the 2.4 GHz and 5 GHz frequency ranges and are designed for indoor and outdoor use. The AIR-ANT2566P4W-RS antenna includes self-identifying circuitry.

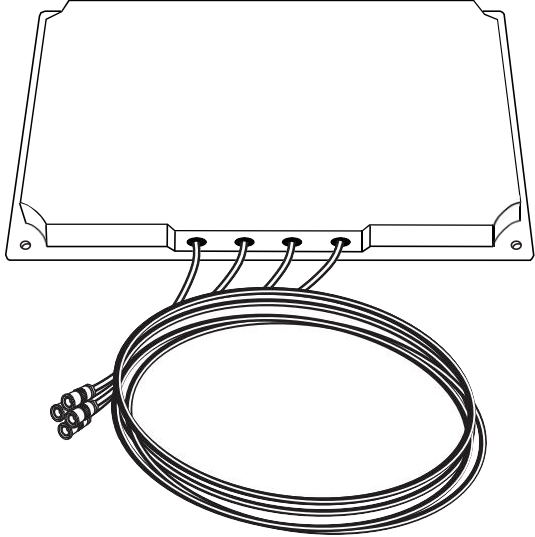


---

**Skywardtel, Inc.**  
[www.skywardtel.com](http://www.skywardtel.com)

# Technical Specifications

**Table 1** AIR-ANT2566P4W-Rx 2.4 GHz/5 GHz MIMO 4-Element Patch Antenna Specifications

Antenna type	4-element dual-band MIMO	
Operating frequency range	2400 to 2484 MHz	
	5150–5850 MHz	
VSWR	2:1 or less	
Gain	6 dBi in both bands	
Polarization	Linear, vertical	
Azimuth Plane 3-dB Beamwidth	2.4 GHz band: 105°	
	5 GHz band: 110°	
Elevation Plane 3-dB Beamwidth	2.4 GHz band: 65°	
	5 GHz band: 55°	
Length	6.3 in. (16 cm)	
Width	11 in. (27.9 cm)	
Depth	1.2 in. (3.05 cm)	
Weight	1.4 lbs	
Cable length and type	3 ft. (91.4 cm) plenum rated	
Connector	RP-TNC	
Environment	Indoor/outdoor	
Water/Foreign Body Ingress	IP54	
Operating temperature range	-40° to 158° F	
	-40° to 70° C	

330381

**Figure 1** Azimuth and Elevation Radiation Patterns - 2.4 GHz Band

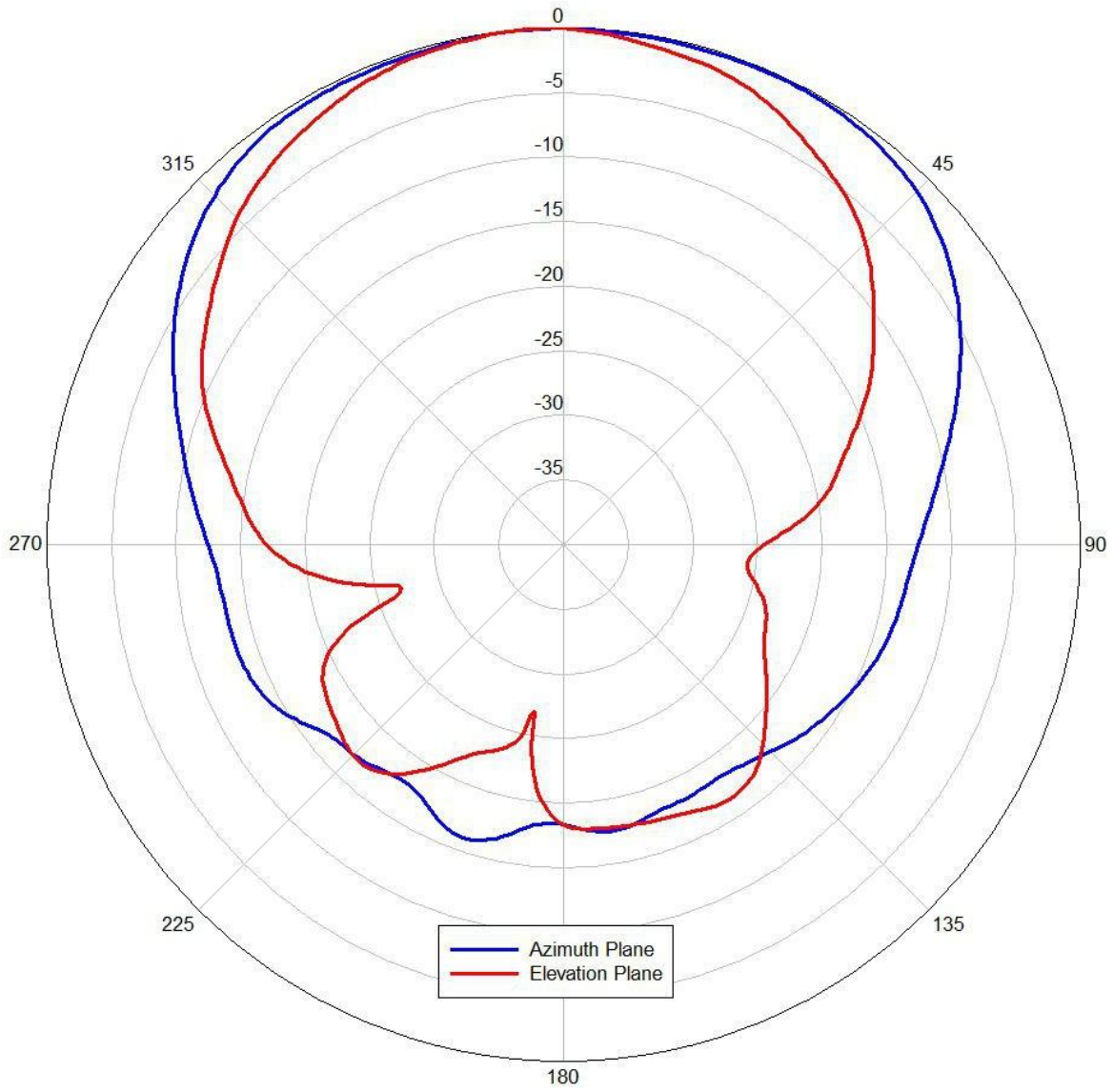
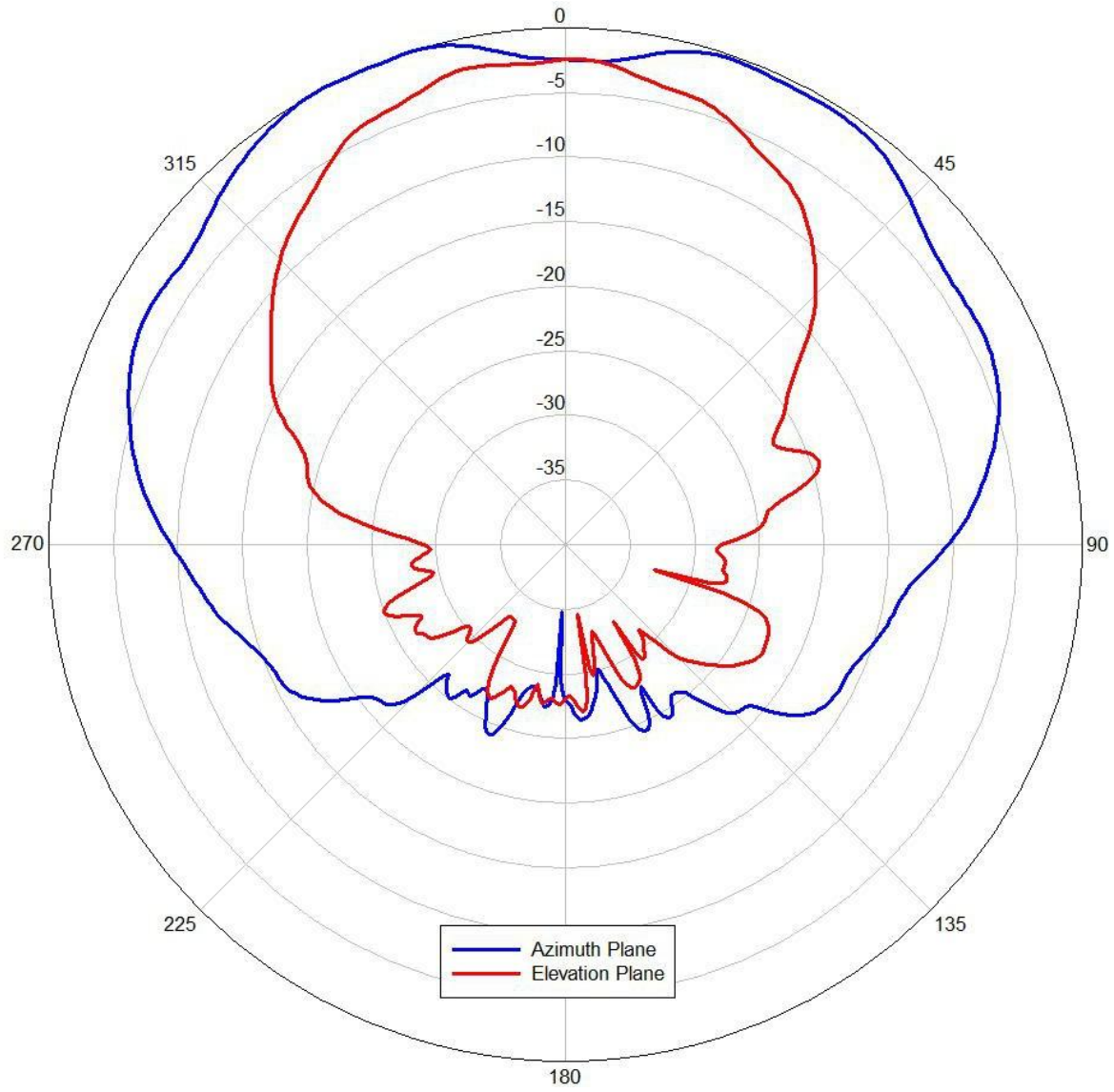


Figure 2 Azimuth and Elevation Radiation Patterns - 5 GHz Band



# System Requirements

This antenna is designed for indoor and outdoor use with any Cisco Aironet access point that requires four (4) dual-band antennas.

The Self Identifying Antenna model AIR-ANT2566P4W-RS= is supported only on Cisco Catalyst 9800 Series Wireless Controllers running an IOS-XE 17.4.1 release or a later release. This antenna model is not supported on Cisco AireOS Wireless Controllers.

## Safety Precautions

Translated versions of the following safety warnings are provided in the *Safety Warnings for Cisco Aironet Antennas*, which is available at <https://www.skywardtel.com>.



---

**Installation of this antenna near power lines is dangerous. For your safety, follow the installation directions.**

---

Each year hundreds of people are killed or injured when attempting to install an antenna. In many of these cases, the victim was aware of the danger of electrocution but did not take adequate steps to avoid the hazard.

For your safety, and to help you achieve a good installation, please read and follow these safety precautions. **They may save your life!**

1. If you are installing an antenna for the first time, for your own safety as well as others, seek professional assistance. Your Cisco sales representative can explain which mounting method to use for the size and type antenna you are about to install.
2. Select your installation site with safety as well as performance in mind. Remember: electric power lines and phone lines look alike. For your safety, assume that any overhead line can kill you.
3. Call your electric power company. Tell them your plans and ask them to come look at your proposed installation. This is a small inconvenience considering your life is at stake.
4. Plan your installation carefully and completely before you begin. Successful raising of a mast or tower is largely a matter of coordination. Each person should be assigned a specific task, and should know what to do and when to do it. One person should be in charge of the operation to issue instructions and watch for signs of trouble.
5. When installing your antenna, remember:
  - a. **Do not** use a metal ladder.
  - b. **Do not** work on a wet or windy day.
  - c. **Do** dress properly—shoes with rubber soles and heels, rubber gloves, long sleeved shirt or jacket.
6. If the assembly starts to drop, get away from it and let it fall. Remember, the antenna, mast, cable, and metal guy wires are all excellent conductors of electrical current. Even the slightest touch of any of these parts to a power line completes an electrical path through the antenna and the installer: **You!**
7. If any part of the antenna system should come in contact with a power line, **don't touch it or try to remove it yourself. Call your local power company.** They will remove it safely.
8. If an accident occurs with the power lines, call for qualified emergency help immediately.