

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

› [Cisco](#) /

› [Cisco Aironet Dual-Band Dipole Antenna - AIR-ANT2524DW-R User Manual](#)

Cisco AIR-ANT2524DW-R

Cisco Aironet Dual-Band Dipole Antenna User Manual

Model: AIR-ANT2524DW-R

1. INTRODUCTION

This manual provides instructions for the proper installation and use of the Cisco Aironet Dual-Band Dipole Antenna, model AIR-ANT2524DW-R. This antenna is designed to enhance wireless connectivity for compatible Cisco Aironet access points.



Figure 1: Cisco Aironet Dual-Band Dipole Antenna (AIR-ANT2524DW-R)

2. KEY FEATURES

- **Dual-Band Operation:** Supports both 2.4 GHz (2 dBi gain) and 5 GHz (4 dBi gain) frequencies for

versatile wireless network performance.

- **Dipole Design:** Provides omnidirectional coverage, suitable for general-purpose wireless deployments.
- **Compatibility:** Designed for use with Cisco Aironet 2702e Controller-based and 3602E access points.
- **Color:** White finish to blend with typical office environments.
- **Compact Design:** Lightweight and compact for easy installation.

3. SETUP AND INSTALLATION

Follow these steps to properly install your Cisco Aironet Dual-Band Dipole Antenna:

1. **Identify Compatible Access Point:** Ensure your access point is a Cisco Aironet 2702e Controller-based or 3602E model. This antenna is specifically designed for these models.
2. **Power Off Access Point:** Before connecting or disconnecting any antennas, power off the access point to prevent potential damage.
3. **Locate Antenna Ports:** Identify the external antenna ports on your Cisco Aironet access point. These are typically labeled.
4. **Attach Antenna:** Carefully screw the antenna connector onto the corresponding port on the access point. Hand-tighten only; do not overtighten.
5. **Adjust Orientation:** Once securely attached, you can adjust the angle of the dipole antenna for optimal signal coverage. For omnidirectional coverage, a vertical orientation is generally recommended.
6. **Power On Access Point:** After all antennas are securely installed, power on your access point.

Important: Ensure all connections are secure to maintain optimal performance and prevent signal loss.

4. OPERATING CONSIDERATIONS

The Cisco Aironet Dual-Band Dipole Antenna is a passive component that works in conjunction with your access point. Optimal performance depends on several factors:

- **Placement:** Position the access point and antenna in a central location within the desired coverage area, away from obstructions like metal objects, thick walls, or other electronic devices that may cause interference.
- **Orientation:** For general omnidirectional coverage, keep the antenna oriented vertically. Experiment with slight adjustments if specific areas require stronger signal.
- **Interference:** Avoid placing the antenna near sources of electromagnetic interference (EMI) such as microwave ovens, cordless phones, or large electrical motors.

5. MAINTENANCE

The Cisco Aironet Dual-Band Dipole Antenna requires minimal maintenance:

- **Cleaning:** Periodically wipe the antenna with a soft, dry cloth to remove dust. Do not use liquid cleaners or solvents.
- **Inspection:** Occasionally check the antenna connection to ensure it remains securely fastened to the access point.

- **Environmental Conditions:** Ensure the antenna is used within its specified operating environment (temperature, humidity) to prevent damage.

6. TROUBLESHOOTING

If you experience issues with your wireless network after installing the antenna, consider the following:

Problem	Possible Cause	Solution
Poor Wi-Fi signal or limited range.	<ul style="list-style-type: none"> ◦ Antenna not securely connected. ◦ Improper antenna orientation. ◦ Obstructions or interference. ◦ Access point placement. 	<ul style="list-style-type: none"> ◦ Ensure antenna is hand-tightened. ◦ Adjust antenna to a vertical position. ◦ Relocate access point away from obstructions/interference. ◦ Move access point to a more central location.
No Wi-Fi signal.	<ul style="list-style-type: none"> ◦ Antenna not connected. ◦ Access point not powered on or faulty. ◦ Incompatible access point. 	<ul style="list-style-type: none"> ◦ Connect antenna securely. ◦ Verify access point power and functionality. ◦ Confirm access point model is compatible (2702e, 3602E).

7. SPECIFICATIONS

Model Number	AIR-ANT2524DW-R
Brand	Cisco
Antenna Type	Dual-Band Dipole
Frequency Range	2.4 GHz and 5 GHz
Gain (2.4 GHz)	2 dBi
Gain (5 GHz)	4 dBi
Wireless Standard	802.11n (compatible with other 802.11 standards)
Color	White
Dimensions (LxWxH)	6.85 x 2.76 x 0.98 inches (17.4 x 7.0 x 2.5 cm)
Weight	1.44 ounces (40.8 grams)
Manufacturer	Cisco Systems
Compatible Access Points	Cisco Aironet 2702e Controller-based, 3602E

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Cisco website or contact Cisco customer service. Keep your purchase receipt for warranty claims.

