

# Antenna Reference Guide

## Wi-Fi Antenna Options and Attachments

SkyPilot provides three different types of omnidirectional antennas with its wireless mesh devices depending upon the device model. The correct antenna(s) is matched with the device at time of shipment. However, because the antennas are very similar in physical appearance and easy to confuse, becoming familiar with their physical differences and product association can be helpful to assure correct antenna application across the mesh network.

The SkyGateway and SkyExtender series products are available in DualBand and TriBand models, which include, in addition to the 5 GHz mesh backhaul, either one (DualBand) or two (TriBand) high-power Wi-Fi access points operating on separate frequencies. The SkyAccess DualBand includes one high-power Wi-Fi access point in addition to its 5 GHz backhaul.

### SkyGateway and SkyExtender Series DualBand and TriBand Models



### SkyAccess DualBand



SkyGateway and SkyExtender series DualBand models offer antenna diversity by utilizing both of the exposed N style connectors for one access point (2.4 or 4.9 GHz), while the SkyAccess DualBand exposes a single N connector for one 2.4 GHz antenna.

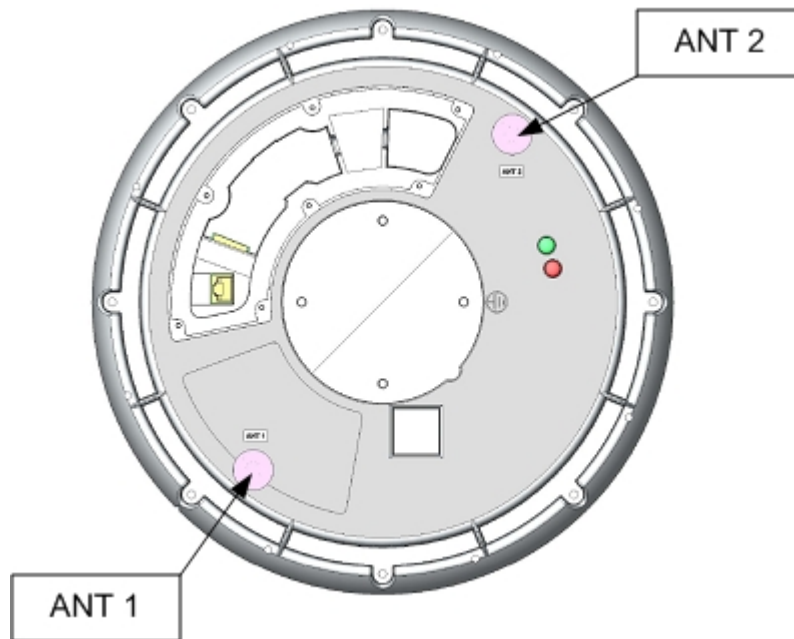
For the SkyGateway and SkyExtender series TriBand models, there is currently only one configuration that utilizes a single exposed N connector for each access point. The 2.4 GHz access point and 4.9 GHz access point connect to their own antenna.

Available omnidirectional antennas are as follows:

Antenna		Specification	Applies To
Part Number: SF-245W-10SR	WHITE BODY WHITE CAP	Frequency: 2.4GHz Gain: 7.4 dBi Down tilt: 10°	SkyAccess DualBand
Part Number: SF-245G+12SR	GREY BODY WHITE CAP	Frequency: 2.4 GHz Gain: 7.4 dBi Up tilt: 12° (installed down)	SkyGateway DualBand SkyExtender DualBand
Part Number: SF-495G+9SR	GREY BODY BLACK CAP	Frequency: 4.9GHz Gain: 9.5 dBi Up tilt: 9° (installed down)	SkyGateway TriBand SkyExtender TriBand

## Connecting the Antenna

When connecting the antennas on SkyGateway and SkyExtender series models, it is critical that the correct antenna be connected to each N connector for wireless performance to be optimized. Please use the following guidelines to ensure proper installation.



AP configuration	Antenna 1	Antenna 2
SkyGateway/Extender DualBand 2.4 GHz	2.4 GHz (GREY body / WHITE cap)	2.4 GHz (GREY body / WHITE cap)
SkyGateway/Extender DualBand 4.9 GHz	UNUSED	4.9 GHz (GREY body / BLACK cap)
SkyGateway/Extender TriBand 2.4/4.9 GHz	2.4 GHz (GREY body / WHITE cap)	4.9 GHz (GREY body / BLACK cap)

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