



*air***MAX**® Sector

5 GHz 2x2 MIMO BaseStation
Sector Antenna

Models: AM-5G16-120, AM-5G17-90

QUICK START GUIDE

Specifications

AM-5G16-120, AM-5G17-90	
Dimensions	367 x 63 x 41 mm (14.45 x 2.48 x 1.61")
Weight (Mount Included)	1.1 kg (2.43 lb)
Frequency	
AM-5G16-120	5.10 - 5.85 GHz
AM-5G17-90	4.90 - 5.85 GHz
Gain	
AM-5G16-120	15.0 - 16.0 dBi
AM-5G17-90	16.1 - 17.1 dBi
HPOL Beamwidth	
AM-5G16-120	137° (6 dB)
AM-5G17-90	72° (6 dB)
VPOL Beamwidth	
AM-5G16-120	118° (6 dB)
AM-5G17-90	93° (6 dB)
Elevation Beamwidth	8°
Electrical Downtilt	4°
Max. VSWR	1.5:1
Wind Survivability	200 km/h (125 mph)
Wind Loading	41.7 N @ 200 km/h (9.375 lbf @ 125 mph)
Polarization	Dual Linear
Cross-Pol Isolation	22 dB Min.
ETSI Specification	EN 302 326 DN2
Mounting	Universal Pole Mount, Rocket Bracket, and Weatherproof RF Jumpers Included



640-00051-02

Introduction

Thank you for purchasing a Ubiquiti Networks® airMAX® 5 GHz 2x2 MIMO BaseStation Sector Antenna. This Quick Start Guide is designed to guide you through the installation of the antenna. This Quick Start Guide also includes the warranty terms and is for use with the airMAX Sector Antenna, model AM-5G16-120 or AM-5G17-90. (Both models share the same form factor and installation instructions.)

Package Contents



Antenna



Rocket Mount
Assembly



Pole Bracket



Pole Clamp



Carriage Bolts
(M8x120, Qty. 2)



RF Cables
(Qty. 2)



Serrated
Flange Bolts
(M8x20, Qty. 2)



Serrated
Flange Nuts
(M8, Qty. 8)



Quick
Start Guide

Products may be different from pictures and are subject to change without notice.

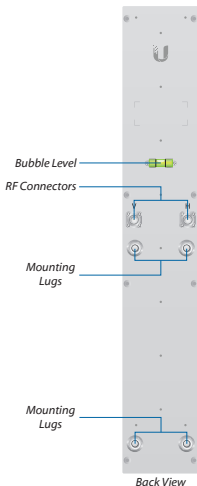
TERMS OF USE: Ubiquiti radio devices must be professionally installed. Shielded Ethernet cable and earth grounding must be used as conditions of product warranty. TOUGH Cable is designed for outdoor installations. It is the customer's responsibility to follow local country regulations, including operation within legal frequency channels, output power, and Dynamic Frequency Selection (DFS) requirements.

Installation Requirements

- Rocket™ M5 or RocketM5 GPS (sold separately)
- 13 mm wrench
- Shielded Category 5 (or above) cabling should be used for all wired Ethernet connections and should be grounded through the AC ground of the PoE.

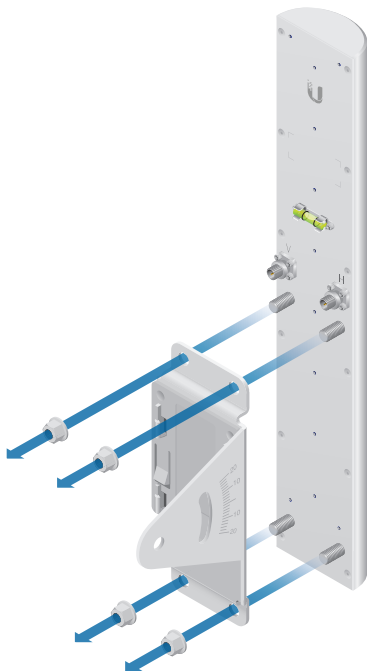
We recommend that you protect your networks from the most brutal environments and devastating ESD attacks with industrial-grade shielded Ethernet cable from Ubiquiti Networks. For more details, visit www.ubnt.com/toughcable

Hardware Overview

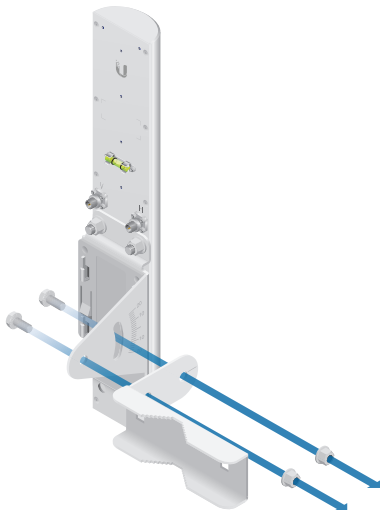


Hardware Installation

1. Attach the *Rocket Mount Assembly* to the antenna using four *Serrated Flange Nuts*.



2. Attach the *Pole Bracket* to the *Rocket Mount Assembly* using two *Serrated Flange Bolts* and two *Serrated Flange Nuts*.



3. Attach the *RF Cables* to the connectors labeled **V** and **H** on the antenna.



4. Attach the Rocket to the *Rocket Mount Assembly*.
- Align the mounting tabs on the back of the Rocket with the four mounting slots on the *Rocket Mount Assembly*.
 - Slide the Rocket down until it locks into place.



5. Attach the other ends of the *RF Cables* to the connectors labeled **Chain 1** and **Chain 0** on the Rocket.



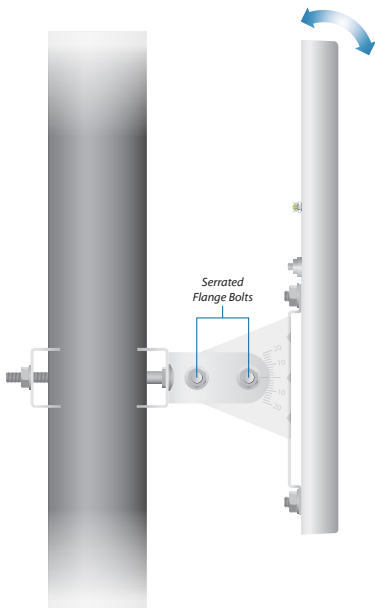
6. To mount the antenna to the pole, attach the *Pole Clamp* to the *Pole Bracket* using two *Carriage Bolts* and two *Serrated Flange Nuts*. Hand-tighten only.



Note: The mounting assembly can accommodate a \varnothing 38 - 76 mm (1.5" - 3.0") pole.



7. The antenna has an electrical downtilt of 4°. To further adjust the elevation angle:
- Loosen the two *Serrated Flange Bolts* on the *Pole Bracket*.
 - Slide the antenna to the desired tilt.
 - Tighten all bolts and nuts to approximately 25 N-m (18 lb-ft) or less to avoid deforming the pole.





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