



airMAX **ac** Sector

2x2 MIMO BaseStation Sector Antenna

Models: AM-5AC21-60, AM-5AC22-45

Advanced Noise Immunity

Superior Beam Performance

Enhanced Scalability of airMAX® Networks



Overview

As the next generation of 2x2 MIMO sector antennas from Ubiquiti Networks, the airMAX^{ac} Sector Antennas feature significant advances in scalability, noise isolation, and beam performance to complement the RocketTM5ac radios.

They are also compatible with RocketM5 models; however, optimal performance requires the Rocket5ac.

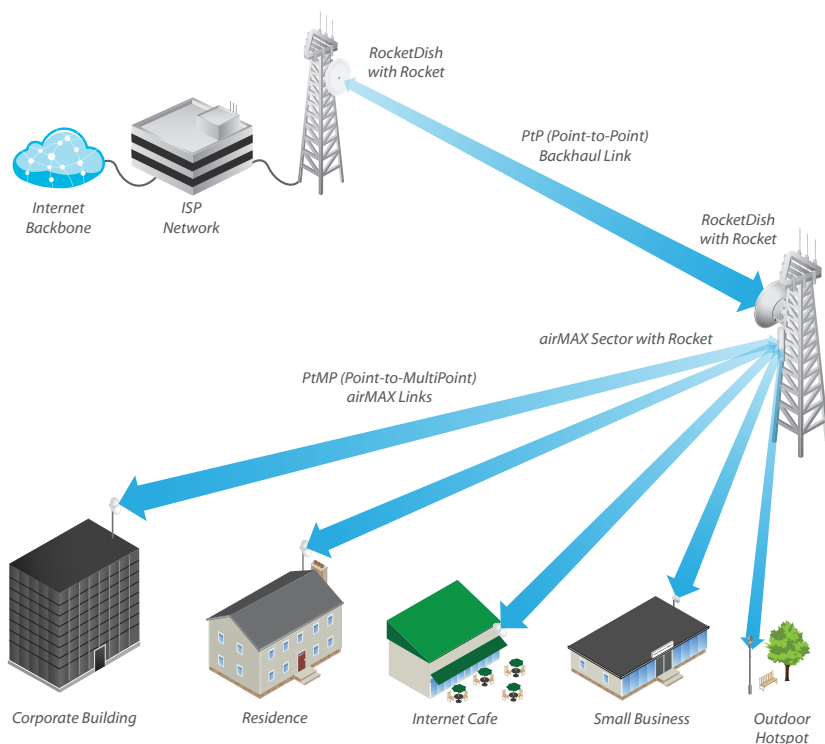
Breakthrough Performance

The airMAX^{ac} Sector Antennas are highly resistant to noise interference in co-location deployments. The innovative deflector design, together with the reduced sidelobes and backlobes, reject interference from other transmitters in the area – potentially on the same tower.

Improved Signal-to-Noise Ratio (S/N or SNR) allows a higher-order modulation to be used, for example, 256QAM rather than 16QAM. This increases the number of bits per second for a fixed bandwidth (or data rate).

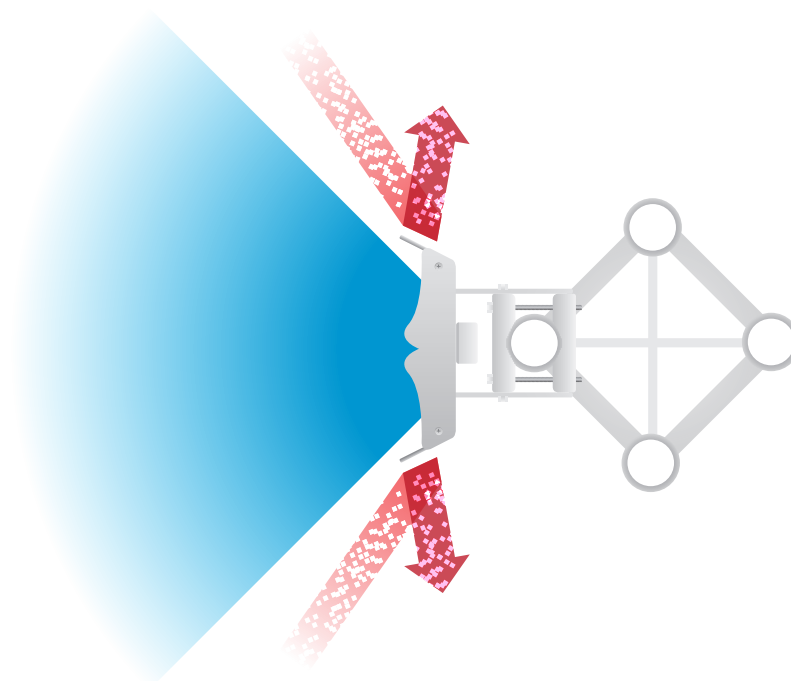
Due to innovative design, the airMAX^{ac} Sector Antennas provide higher gain and superior beam performance for high-capacity, multipoint networks.

Point to Multi-Point (PtMP) Link Example



The airMAX^{ac} Sector Antennas provide sector-wide coverage and utilize airMAX technology to provide carrier-class performance and power.

Innovative Deflector Design

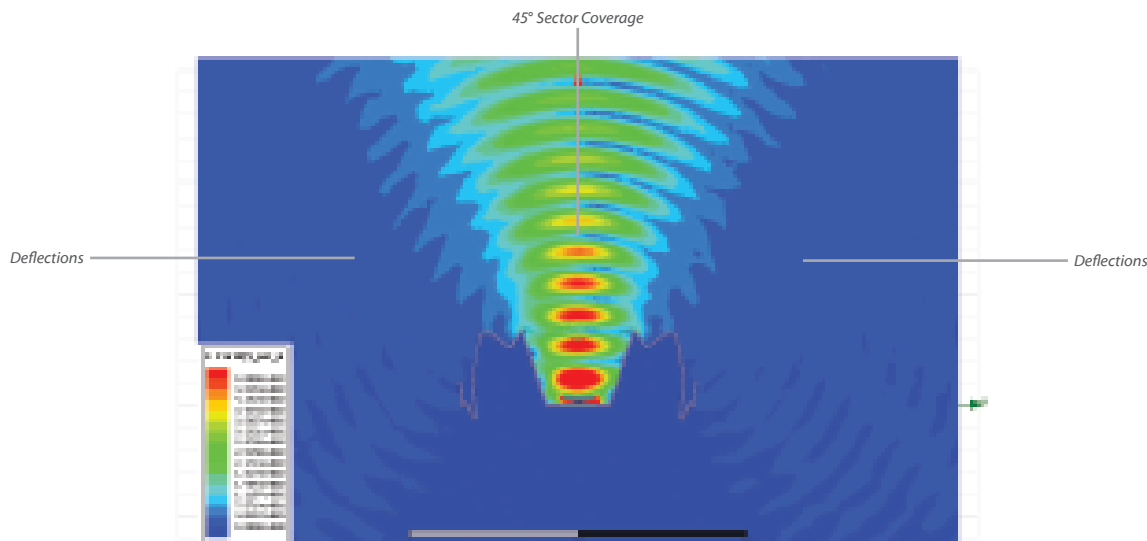


The airMAX^{ac} Sector Antennas are engineered to reject interference and provide enhanced scalability, higher gain, and superior beam performance in PtMP networks.

Market-Leading Isolation Performance

The airMAX ac Sector Antennas are designed to provide advanced noise isolation performance. Compare the diagram of the AM-5AC22-45 to the diagram of a standard sector antenna, and note the superior noise immunity and beam performance of the AM-5AC22-45. (Both diagrams use a linear scale.)

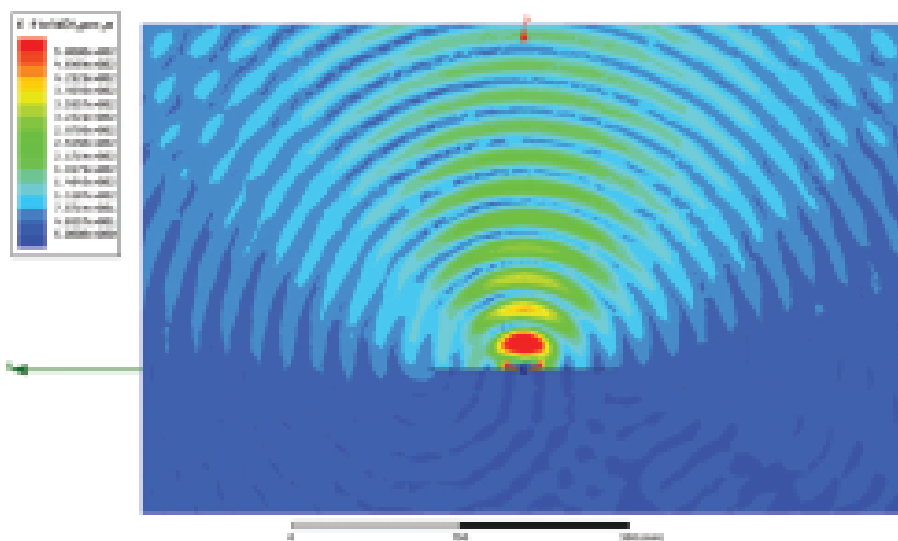
Near Field of AM-5AC22-45 (displayed in watts)



The strength of the electromagnetic field is color-coded.

- Red: Highest strength
- Green: Medium strength
- Indigo: Weakest strength

Near Field of Standard Sector Antenna (displayed in watts)



The strength of the electromagnetic field is color-coded.

- Red: Highest strength
- Green: Medium strength
- Indigo: Weakest strength

Hardware Overview

The airMAX ac Sector Antenna features robust construction for industrial-strength durability during outdoor use.



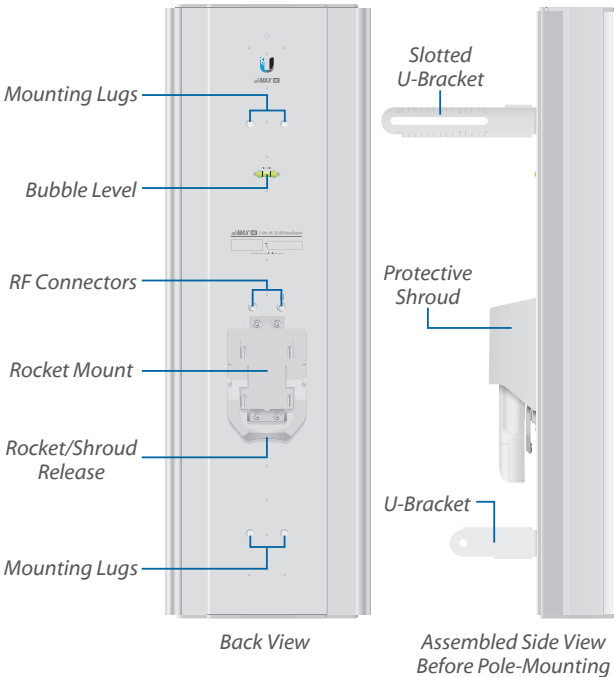
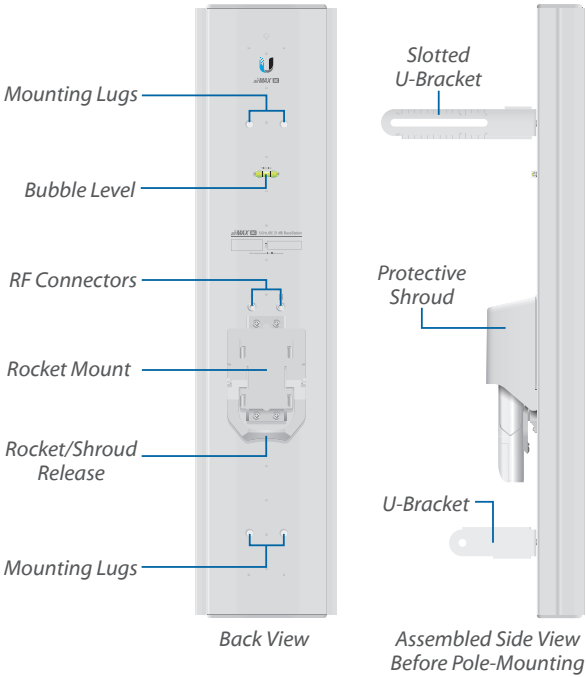
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Model	Frequency	Gain	Beamwidth
AM-5AC21-60	5 GHz	21 dBi	60°



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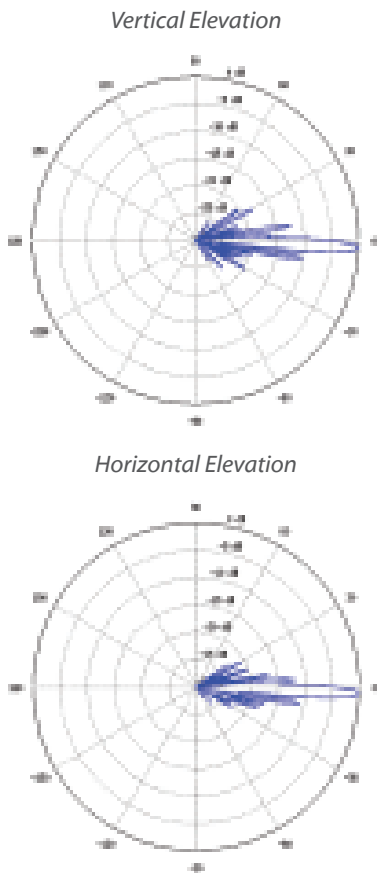
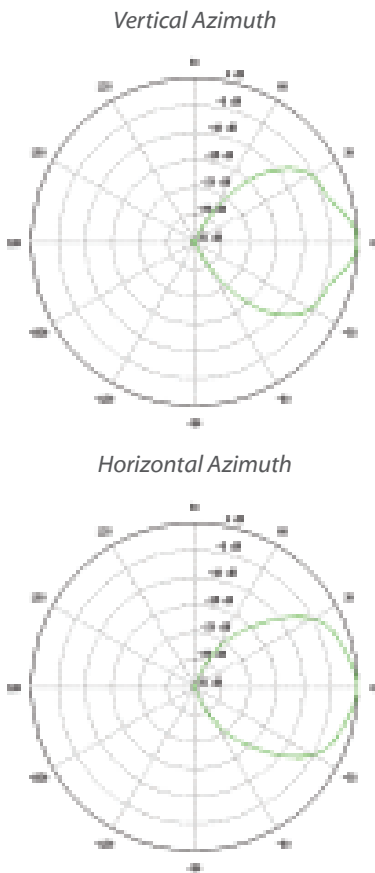
Model	Frequency	Gain	Beamwidth
AM-5AC22-45	5 GHz	22 dBi	45°



Specifications

AM-5AC21-60 Antenna Characteristics		
Dimensions*		750 x 173 x 78 mm (29.53 x 6.81 x 3.07")
Weight†		4.8 kg (10.58 lbs)
Frequency Range		5.10 - 5.85 GHz
Gain		21 dBi
HPOL Beamwidth		60° (6 dBi)
VPOL Beamwidth		60° (6 dBi)
Electrical Beamwidth		4°
Electrical Downtilt		2°
Max. VSWR		1.5:1
Wind Survivability		200 km/h (125 mph)
Wind Loading		391 N @ 200 km/h (88 lbf @ 125 mph)
Polarization		Dual-Linear
Cross-Polarization Isolation		25 dB Min.
ETSI Specification		EN 302 326 DN2
Mounting	Universal Pole Mount, Rocket Bracket, and Weatherproof RF Jumpers Included	

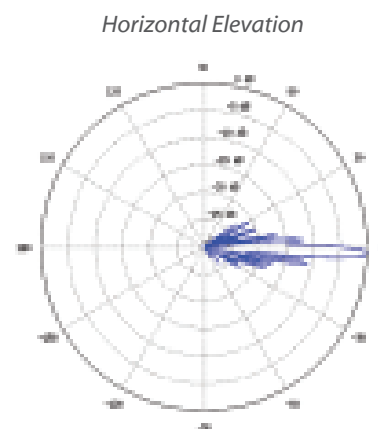
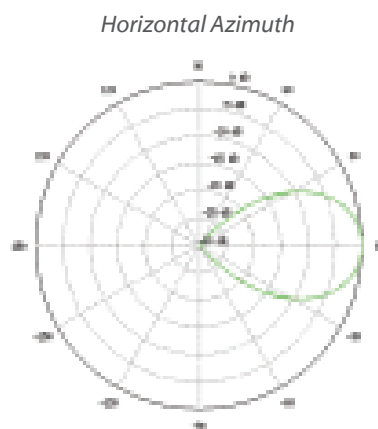
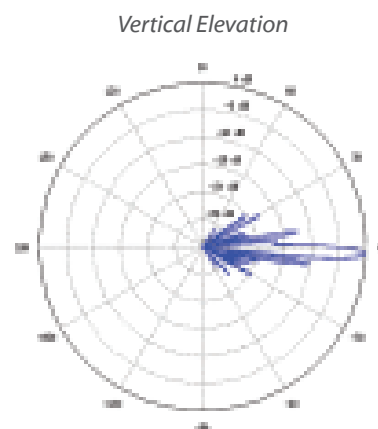
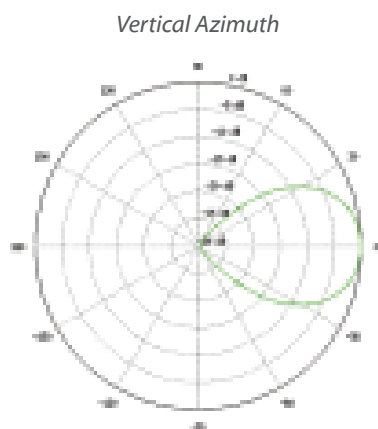
* Dimensions exclude pole mount and Rocket radio (Rocket sold separately)
† Weight includes pole mount and excludes Rocket radio (Rocket sold separately)



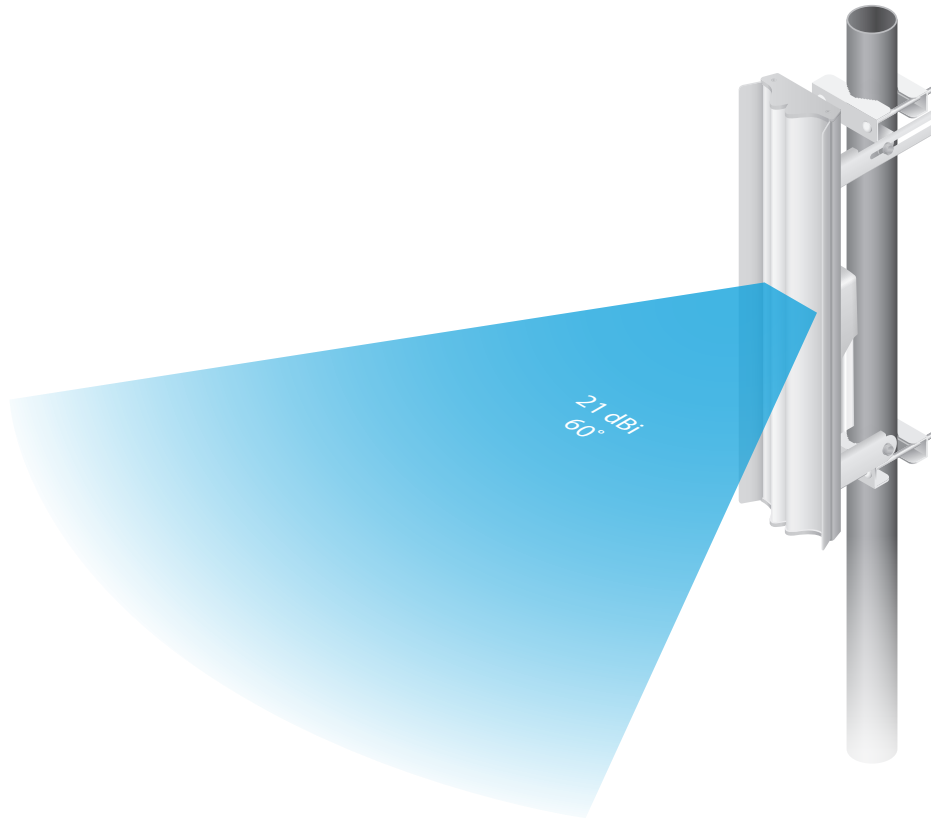
Specifications

AM-5AC22-45 Antenna Characteristics		
Dimensions*		750 x 215 x 94 mm (29.53 x 8.47x 3.70")
Weight†		6 kg (13.23 lbs)
Frequency Range		5.10 - 5.85 GHz
Gain		22 dBi
HPOL Beamwidth		45° (6 dBi)
VPOL Beamwidth		45° (6 dBi)
Electrical Beamwidth		4°
Electrical Downtilt		2°
Max. VSWR		1.5:1
Wind Survivability		200 km/h (125 mph)
Wind Loading		347 N @ 200 km/h (78 lbf @ 125 mph)
Polarization		Dual-Linear
Cross-Polarization Isolation		30 dB Min.
ETSI Specification		EN 302 326 DN2
Mounting	Universal Pole Mount, Rocket Bracket, and Weatherproof RF Jumpers Included	

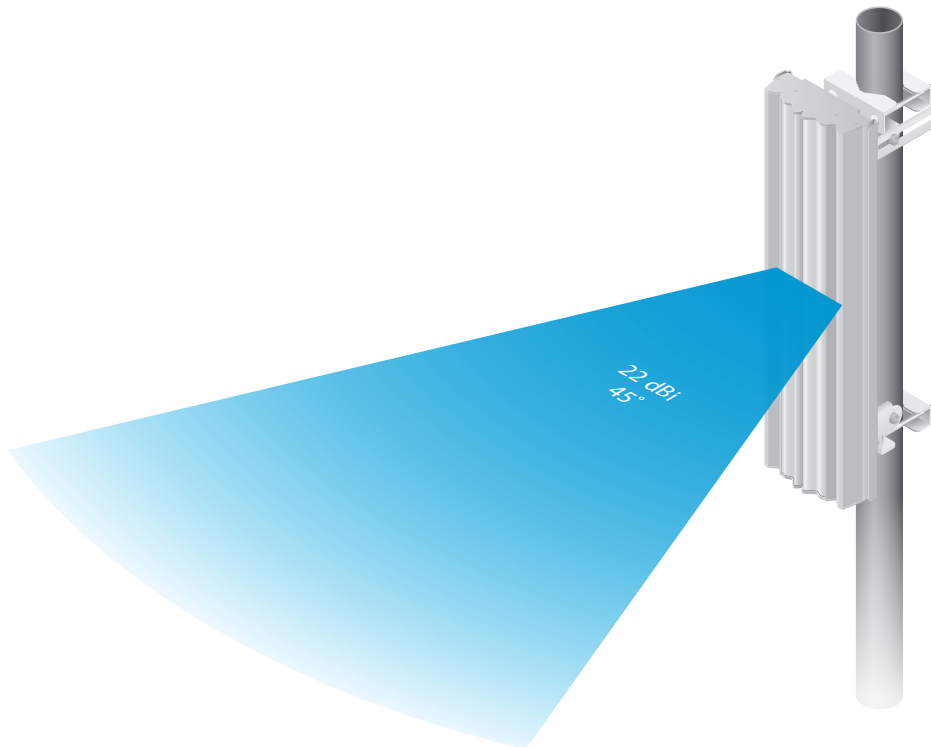
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Beamwidth



AM-5AC21-60



AM-5AC22-45

