



# airMAX™ Omni

Next-Gen 2x2 Dual Polarity MIMO Omni Antenna

Models: AMO-2G10, AMO-2G13, AMO-3G12, AMO-5G10, AMO-5G13

High Performance, Long Range

Seamlessly Integrates with RocketM

360° Coverage



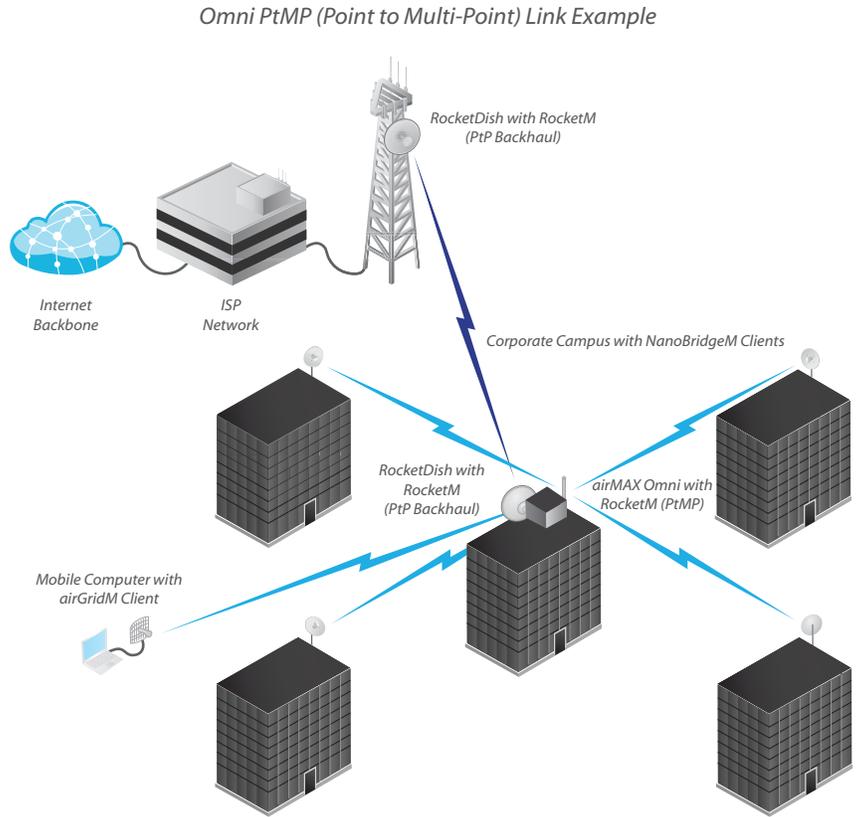
# Overview

## Omnidirectional Coverage

airMAX Omni is a Carrier Class 2x2 Dual Polarity MIMO Omnidirectional Antenna that was designed to seamlessly integrate with RocketM radios (RocketM sold separately).

Pair the RocketM's radio with the airMAX Omni's reach to create a powerful, 360° omnidirectional basestation.. This seamless integration gives network architects unparalleled flexibility and convenience.

On the right is one example of how airMAX Omni can be deployed:



airMAX Omni antennas provide wide 360° coverage and utilize airMAX technology to produce carrier-class performance and power.

## Utilize airMAX Technology\*

Unlike standard Wi-Fi protocol, Ubiquiti's Time Division Multiple Access (TDMA) airMAX protocol allows each client to send and receive data using pre-designated time slots scheduled by an intelligent AP controller.

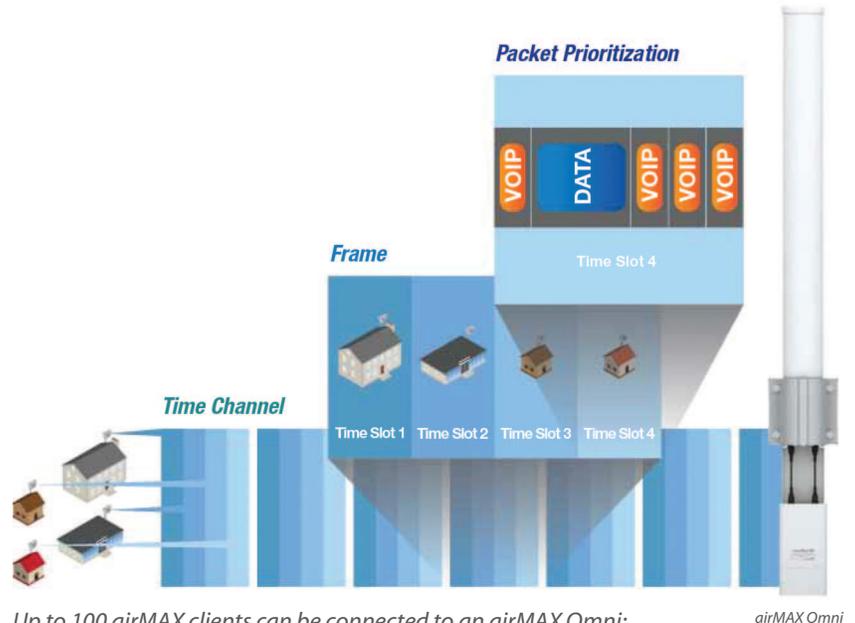
This "time slot" method eliminates hidden node collisions and maximizes airtime efficiency. It provides many magnitudes of performance improvements in latency, throughput, and scalability compared to all other outdoor systems in its class.

**Intelligent QoS** Priority is given to voice/video for seamless streaming.

**Scalability** High capacity and scalability.

**Long Distance** Capable of high-speed, carrier-class links.

**Latency** Multiple features dramatically reduce noise.



Up to 100 airMAX clients can be connected to an airMAX Omni; four airMAX clients are shown to illustrate the general concept.

\* When Omni is paired with RocketM

# Models



AMO-5G10  
(5 GHz, 10 dBi)



AMO-5G13  
(5 GHz, 13 dBi)



AMO-3G12  
(3 GHz, 12 dBi)



AMO-2G10  
(2.4 GHz, 10 dBi)



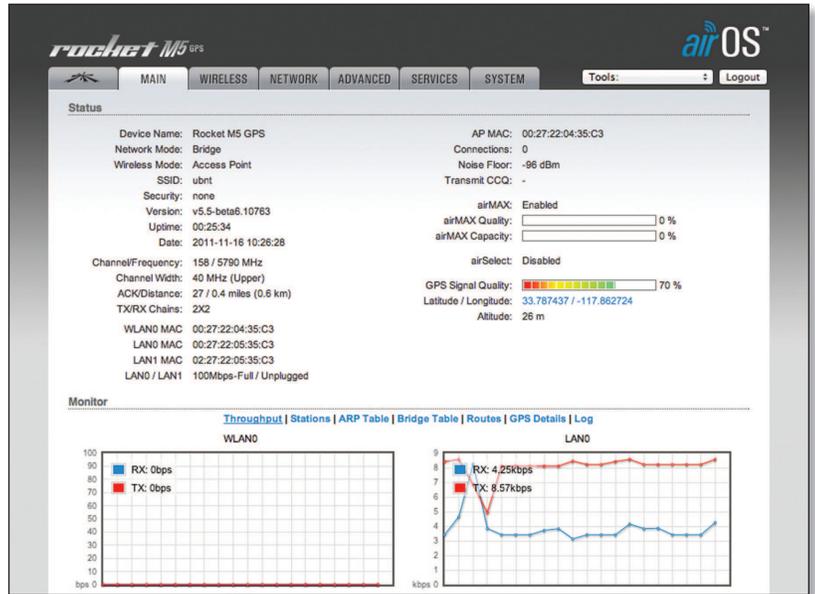
AMO-2G13  
(2.4 GHz, 13 dBi)

# Software

## airOS™

airOS is an intuitive, versatile, highly developed Ubiquiti firmware technology. It is exceptionally intuitive and was designed to require no training to operate. Behind the user interface is a powerful firmware architecture, which enables high-performance, outdoor multipoint networking.

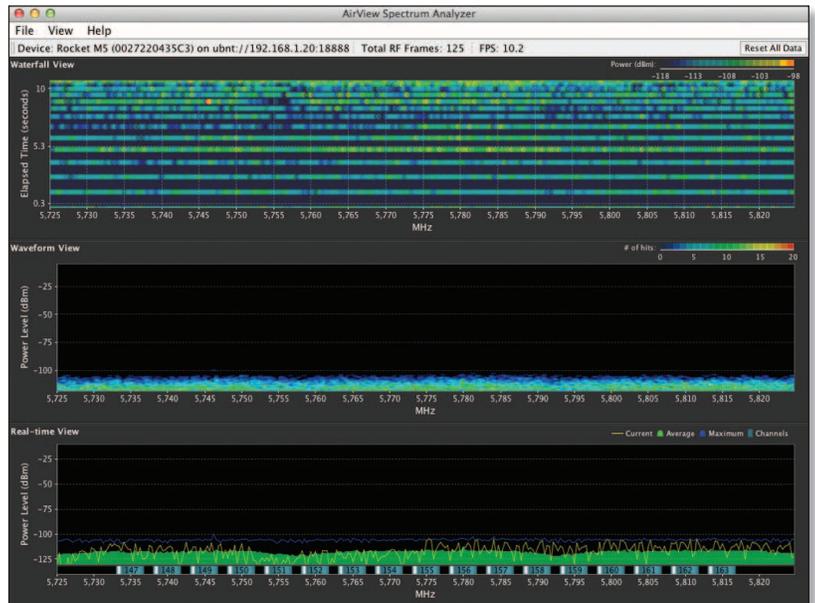
- Protocol Support
- Ubiquiti Channelization
- Spectral Width Adjustment
- ACK Auto-Timing
- AAP Technology
- Multi-Language Support



## airView™

Integrated on all Ubiquiti M products, airView provides Advanced Spectrum Analyzer Functionality: Waterfall, waveform, and real-time spectral views allow operators to identify noise signatures and plan their networks to minimize noise interference.

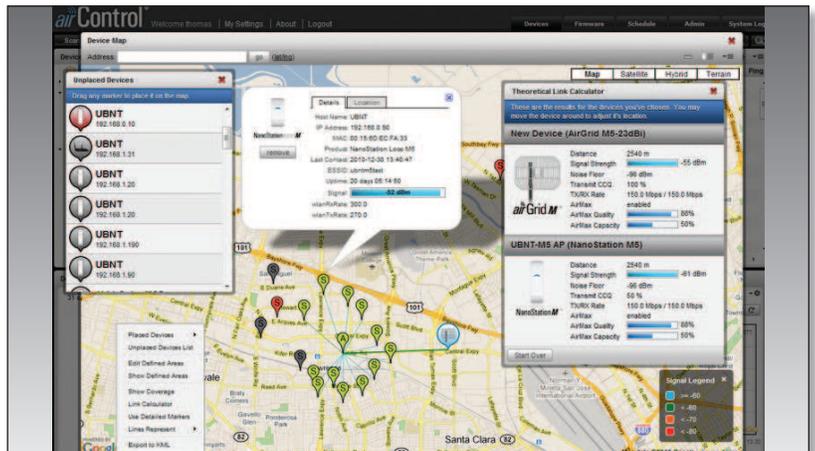
- **Waterfall** Aggregate energy over time for each frequency.
- **Waveform** Aggregate energy collected.
- **Real-time** Energy is shown real-time as a function of frequency.
- **Recording** Automize AirView to record and report results.



## airControl™

airControl is a powerful and intuitive, web-based server network management application, which allows operators to centrally manage entire networks of Ubiquiti devices.

- Network Map
- Monitor Device Status
- Mass Firmware Upgrade
- Web UI Access
- Manage Groups of Devices
- Task Scheduling



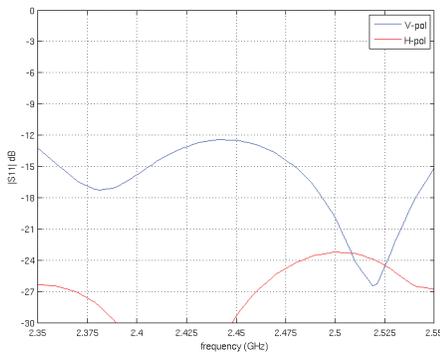
# Specifications

Antenna Characteristics					
Model	AMO-2G10	AMO-2G13	AMO-3G12	AMO-5G10	AMO-5G13
Dimensions* (mm)	1030 X 122 X 84	1390 X 122 X 105	1012 X 122 X 105	799 X 90 X 65	582 X 90 X 65
Weight*	2.1 kg	2.4 kg	2.05 kg	0.68 kg	0.82 kg
Frequency Range	2.35 - 2.55 GHz	2.35 - 2.55 GHz	3.4 - 3.7 GHz	5.45 - 5.85 GHz	5.45 - 5.85 GHz*
Gain	10 dBi	13 dBi	12 dBi	10 dBi	13 dBi
Elevation Beamwidth	12°	7°	8°	12°	7°
Max VSWR	1.7:1	1.7:1	1.6:1	1.6:1	1.5:1
Downtilt	4°	2°	4°	4°	2°
Wind Survivability	125 mph	125 mph	125 mph	125 mph	125 mph
Wind Loading	14 lb @ 100 mph	16 lb @ 100 mph	16 lb @ 100 mph	10 lb @ 100 mph	12 lb @ 100 mph
Polarization	Dual-Linear	Dual-Linear	Dual-Linear	Dual-Linear	Dual-Linear
Cross-pol Isolation	25 dB min.	25 dB min.	25 dB min.	25 dB min.	25 dB min.
ETSI Specification	EN 302 326 DN2	EN 302 326 DN2	EN 302 326 DN2	EN 302 326 DN2	EN 302 326 DN2
Mounting	Universal Pole Mount, RocketM Bracket, and Weatherproof RF Jumpers Included				

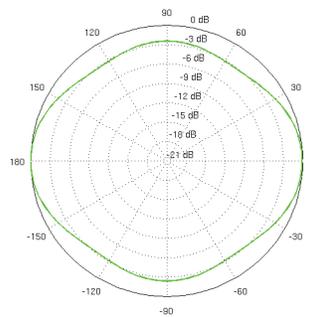
\* Dimensions and weight include pole mount and exclude RocketM (RocketM sold separately)

## AMO-2G10 Antenna Information

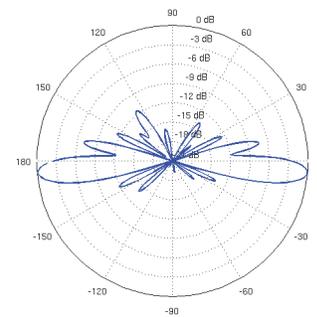
Return Loss



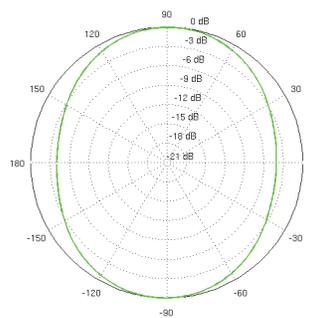
Vertical Azimuth



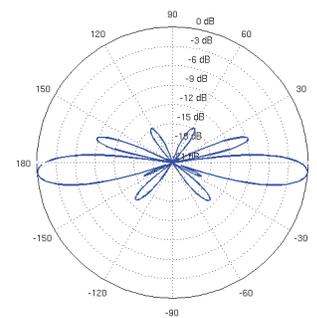
Vertical Elevation



Horizontal Azimuth

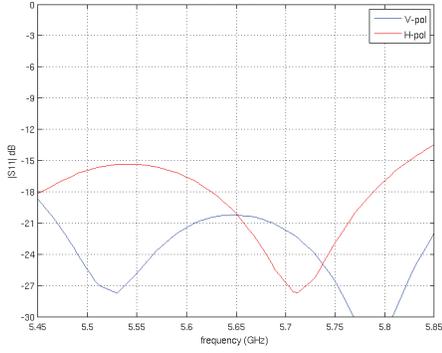


Horizontal Elevation

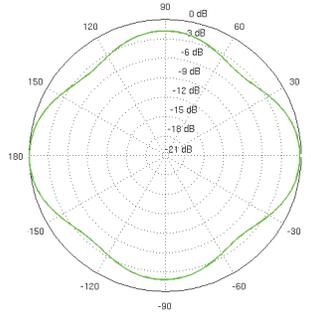


# AMO-5G10 Antenna Information

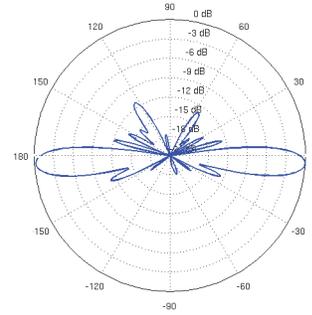
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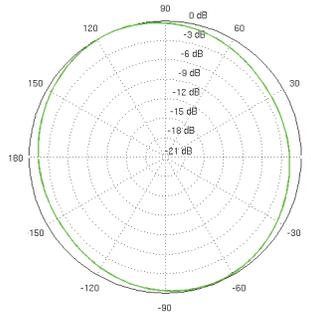
Vertical Azimuth



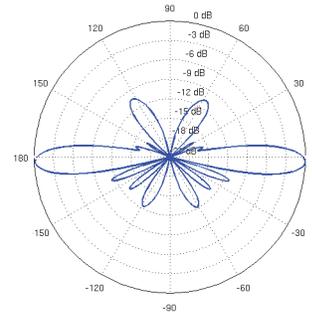
Vertical Elevation



Horizontal Azimuth

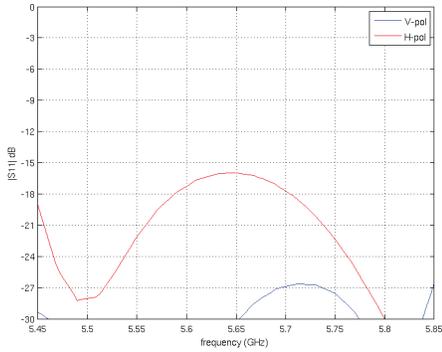


Horizontal Elevation

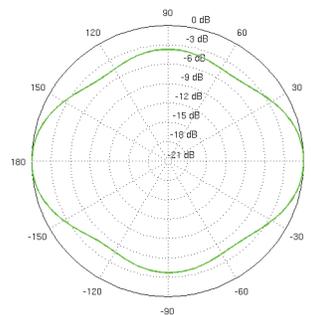


# AMO-5G13 Antenna Information

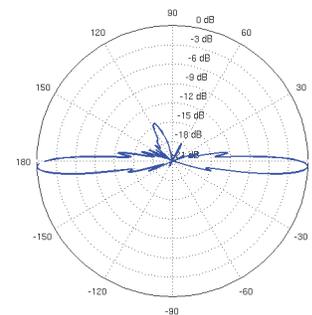
Return Loss



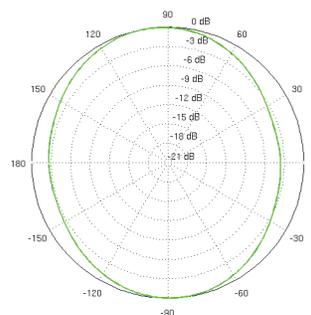
Vertical Azimuth



Vertical Elevation



Horizontal Azimuth



Horizontal Elevation

