What Is AirMax?



AirMax Products

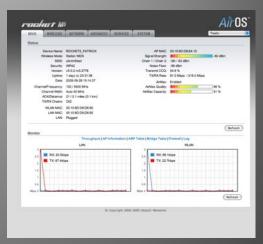


Hardware Accelerated



MIMO TDMA Protocol

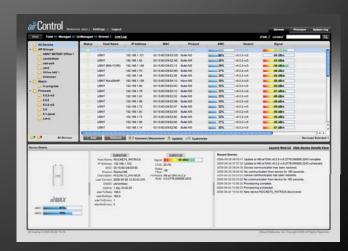
AirOS 5



AirMax MIMO Antennas



AirControl



AirMax Protocol Benefits



SCALABILTY



-802.11 protocol (based on carrier sensing) was designed for indoor networks where clients can "hear" one another. AirMax Protocol (based on TDMA) was designed for outdoors; hidden nodes are no problem.

LATENCY



-AirMax protocol has "smart polling" which senses voice/video packets and gives them priority. It also provides priority to "active" clients over "idle" ones to optimize perceived latency on large networks.

SPEED



-AirMax is based on latest 1x1 and 2x2 MIMO radio technology. 150Mbps+ real TCP/IP throughput in PtP mode and 100Mbps+ in PtMP

AirMax Products







Rocket M Base Station





- -Powerful BaseStation Hardware. 400MHz MIPS 24K, 64MB RAM
- -2x2 MIMO Radio; delivers speeds more than 5x previous solutions
- -Ubiquiti Radio Front-End Design; hi-power, RX sensitivity, ACR performance
- -Rugged enclosure design; will survive most extreme conditions
- -Easily "snaps in" to any AirMax Sector or Dish Antenna for complete base station or backhaul solution

Bullet M Series





- -No special MIMO antenna required; works with existing antennas
- -Capable of 100Mbps Real TCP/IP throughput (4x 802.11a/b/g Bullet)
- -Ubiquiti Radio Front-End Design; hi-power, RX sensitivity, ACR performance
- -No RF cables required; can "plug in" to most grid and omni antennas
- -Powerful enough to be used as a PtMP Base Station, CPE, as well as in PtP applications

NanoStation M





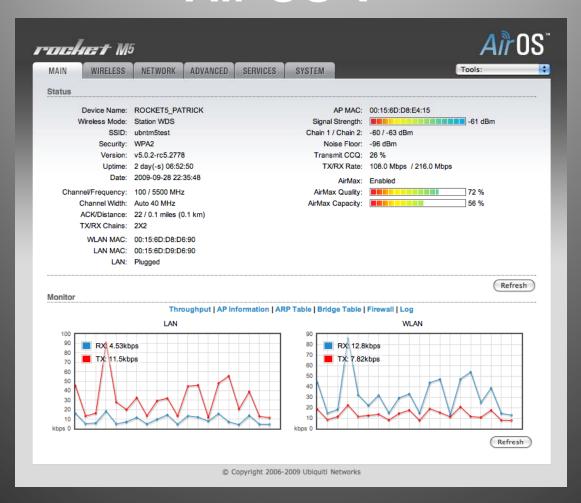




- -Ubiquiti's most versatile station product. Can be used for CPE, AP, PtP bridging, or video surveillance networks
- -New 16dBi MIMO Antenna Array Design
- -New Secondary Ethernet port with software enabled POE output
- -More than 5x faster than 802.11a/b/g NanoStation
- -Ubiquiti Radio Front-End Design; hi-power, RX sensitivity, ACR performance

Air OS V

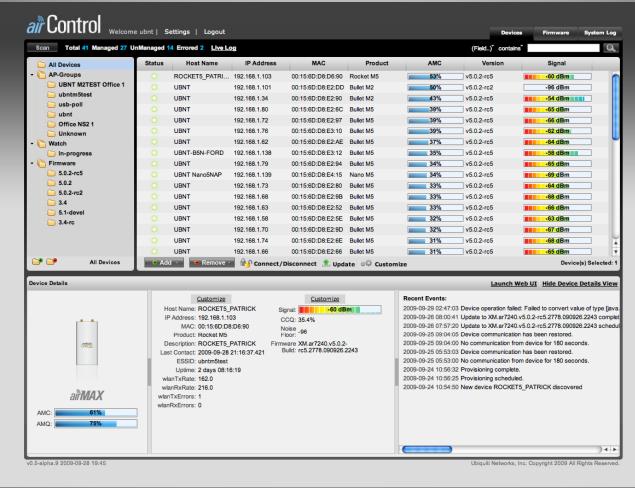




- -Air Max Capacity (AMC) and Air Max Quality (AMQ) metrics
- -New UI look and feel
- -5/10/20/40MHz Channel Options
- -Advanced QoS functionality (4 levels)

Air Control

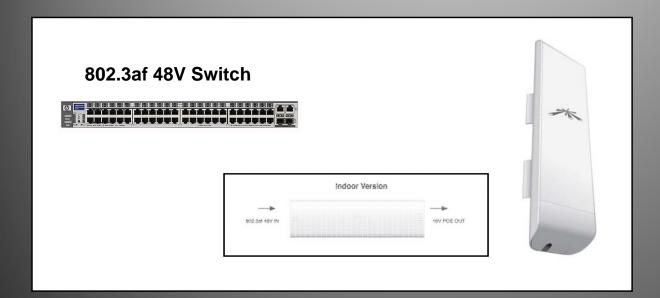




- -Manage 100's of Ubiquiti Devices
- -Access your network from anywhere; only need a web browser
- -Customize "groups" including SSID and FW version
- -Mass firmware upgrade capability

Instant802.3af Adapter







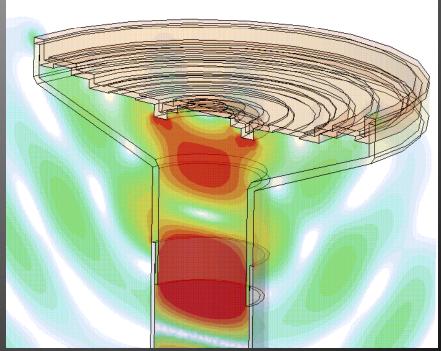
- -Standard compliant 802.3af 48V input
- -18V / 0.7A passive POE output
- -Compatible with all Ubiquiti products and most 3rd party products
- -Enables use of professional 802.3af 48V Switches with Ubiquiti products
- -Ideal for long cable run lengths as higher voltage / lower current will have less power loss



Reflector Antennas

Ubiquiti has an expanding line of dual polarized antennas that mate to the Rocket radio

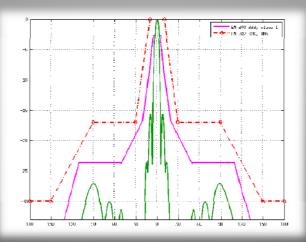


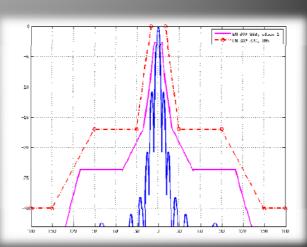


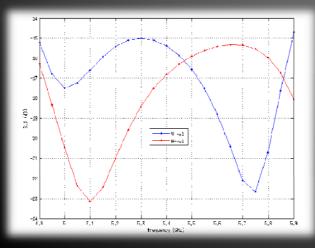


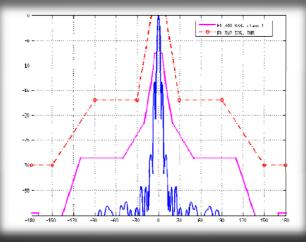
Reflector Antennas

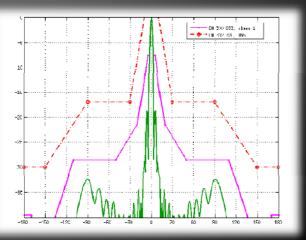
- Product Range
 - 5.1-5.9GHz
 - 2ft Dish (30dBi)













Reflector Antennas

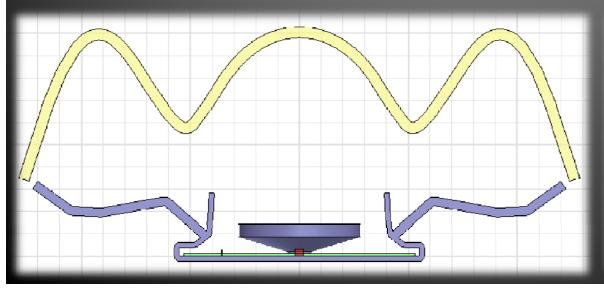
- Key Features
 - "Brick Wall" high pass filter
 - Everything below 3.7GHz is filtered out for the 5GHz versions
 - 70% Aperture Efficiency
 - EN300 and EN302 Specification compliant for backhaul applications
 - Integrated Rocket Mount
 - Fine Adjust Mounting Bracket
 - Optional Radome

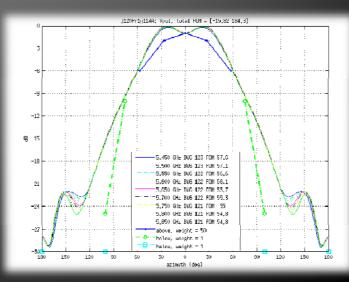




- Patent Pending Beam Shaping Technology
 - Uses the radome and a shaped ground plane in conjunction to provide equal beamwidths and low sidelobes for both polarizations

120 degree Sector







- Plastic radome and metal shape combine to shape the beam
- Alternating element feed orientation maximizes cross polisolation and minimizes pattern asymmetries.



- Patent Pending Dual Pol Technology
 - Parallel Feed
 - Low loss substrate

Wide band

High efficiency

High gain

No beam scanning with frequency



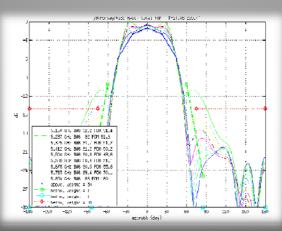
- Key Features
 - Equal Beamwidths for V and H polarizations
 - Low Sidelobes
 - Electrical Down tilt
 - Wide Band
 - 4.9-5.9GHz including Ultra High Gain Option
 - 2.3-2.7GHz
 - 90 and 120 sector options
 - Rugged Construction

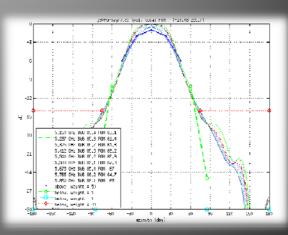




Sector Antennas

- Product Range
 - 5.1-5.9GHz
 - High Gain
 - 90 Deg
 - 120 Deg
 - Mid gain
 - 90 Deg
 - 120 Deg
 - 2.3-2.7GHz
 - Mid gain
 - 90 Deg
 - 120 Deg





90 degree 5GHz High Gain example

