

PicoStation™ **M2 HP**

Indoor/Outdoor airMAX™ Radio

Model: PICOM2HP

High Power, Wide Range Coverage

Compact Form Factor

100+ Mbps Real Throughput



Overview

Leading-Edge Industrial Design

Ubiquiti Networks™ set the bar for the world's smallest and most powerful Access Point (AP) with the original PicoStation™. The PicoStationM2HP takes the same concept to the future with integrated airMAX™ technology.

The PicoStationM2HP features speeds up to 100+ Mbps and range performance of up to 500 m. It can be deployed in indoor or outdoor environments, so the PicoStationM2HP is ideal for applications requiring medium-range performance and a minimal installation footprint.

The high performance, small form factor, and low cost of the PicoStationM2HP make it extremely versatile and economical to deploy.

Wireless AP



PicoStationM2HP as a powerful AP connecting multiple wireless clients.

Wireless Client



PicoStationM2HP as a powerful wireless client.

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.

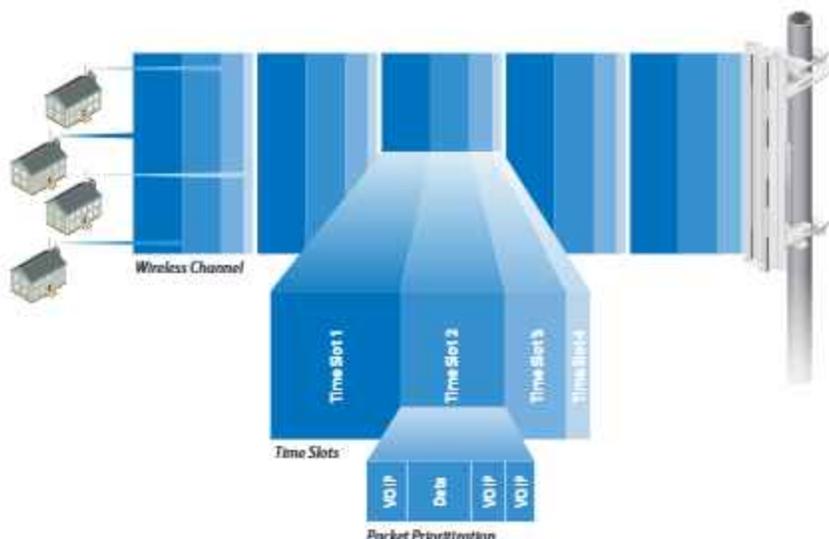
This "time slot" method eliminates hidden node collisions and maximizes airtime efficiency. It provides significant performance improvements in latency, throughput, and scalability compared to all other outdoor systems in its class.

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

Scalability High capacity and scalability.

Carrier-Class Capable of high-speed links.

airMAX TDMA Technology



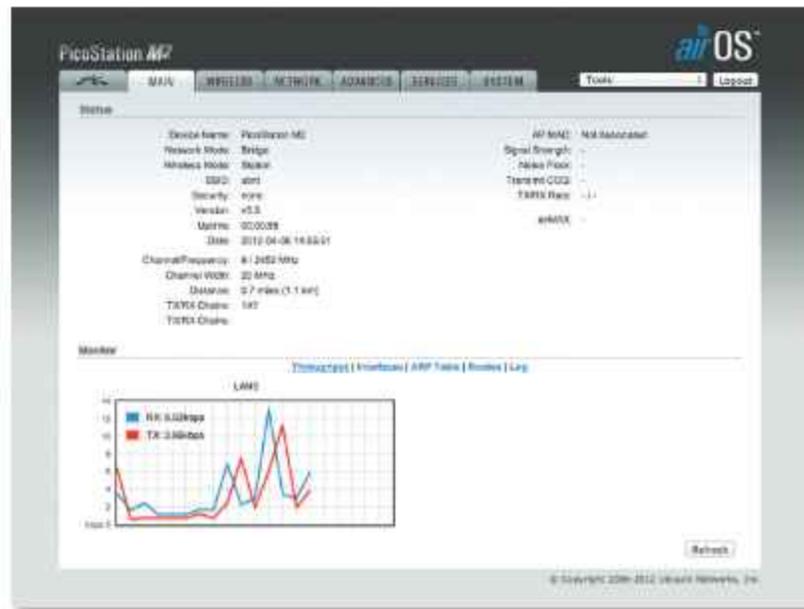
Up to 100 airMAX stations can be connected to an airMAX Sector; four airMAX stations are shown to illustrate the general concept.

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 multi-point networking.

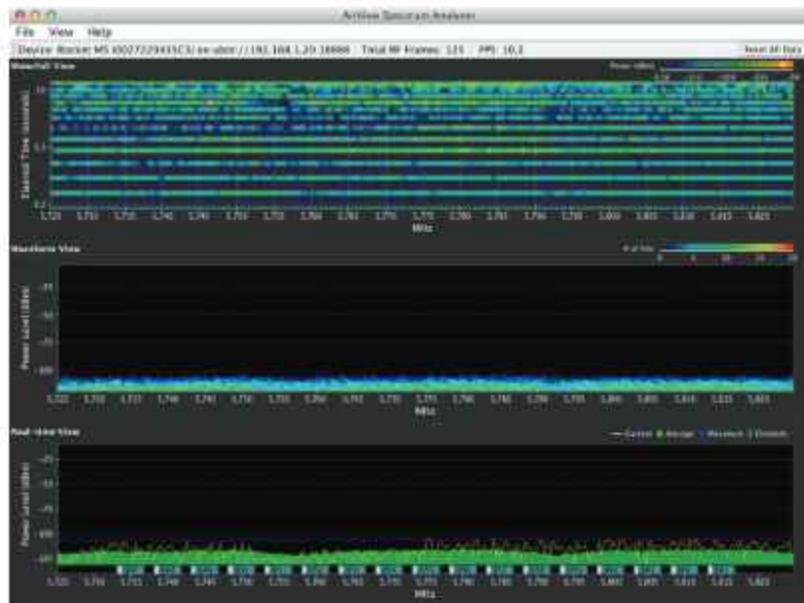
- Protocol Support
- Ubiquiti Channelization
- Spectral Width Adjustment
- ACK Auto-Timing
- AAP Technology
- Multi-Language Support



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 in real time as a function of frequency.
- **Recording** Automate 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

System Information	
Processor Specs	Atheros MIPS 24KC, 400 MHz
Memory	32 MB SDRAM, 8 MB Flash
Networking Interface	(1) 10/100 Ethernet Port

Regulatory/Compliance Information	
Wireless Approvals	FCC Part 15.247, IC RS210, CE
RoHS Compliance	Yes

Physical/Electrical/Environmental	
Dimensions	136 x 20 x 39 mm
Weight	0.1 kg
Enclosure Characteristics	Outdoor UV Stabilized Plastic
Mounting	Wall or Pole Mounting Kit (Included)
Antenna Connector	External RP-SMA
Antenna USA EU	(1) External, 5 dBi Omni Antenna (Included) (1) External, 2 dBi Omni Antenna (Included)
Operating Frequency	2412-2462 MHz
Range Indoor Outdoor	Up to 200 m Up to 500 m
Max. Power Consumption	8 W
Power Supply (PoE)	15V, 0.8A Power Adapter (Included)
Power Method	Passive Power over Ethernet (Pairs 4, 5+; 7, 8 Return)
Operating Temperature	-20 to 70° C
Operating Humidity	5 to 95% Condensing
Shock & Vibration	ETSI300-019-1.4

Output Power: 28 dBm							
2.4 GHz TX POWER SPECIFICATIONS				2.4 GHz RX POWER SPECIFICATIONS			
	Data Rate/MCS	Avg. TX	Tolerance		Data Rate/MCS	Sensitivity	Tolerance
11b/g	1-24 Mbps	28 dBm	± 2 dB	11b/g	1-24 Mbps	-97 dBm	± 2 dB
	36 Mbps	27 dBm	± 2 dB		36 Mbps	-80 dBm	± 2 dB
	48 Mbps	26 dBm	± 2 dB		48 Mbps	-77 dBm	± 2 dB
	54 Mbps	24 dBm	± 2 dB		54 Mbps	-75 dBm	± 2 dB
11n/nMAX	MCS0	28 dBm	± 2 dB	n/nMAX	MCS0	-96 dBm	± 2 dB
	MCS1	28 dBm	± 2 dB		MCS1	-95 dBm	± 2 dB
	MCS2	28 dBm	± 2 dB		MCS2	-92 dBm	± 2 dB
	MCS3	28 dBm	± 2 dB		MCS3	-90 dBm	± 2 dB
	MCS4	27 dBm	± 2 dB		MCS4	-86 dBm	± 2 dB
	MCS5	25 dBm	± 2 dB		MCS5	-83 dBm	± 2 dB
	MCS6	24 dBm	± 2 dB		MCS6	-77 dBm	± 2 dB
	MCS7	23 dBm	± 2 dB		MCS7	-74 dBm	± 2 dB

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