DATASHEET





Powerful airMAX® ac BaseStation

Model: R5AC-Lite, R5AC-PTP, R5AC-PTMP

airMAX ac Technology for up to 450+ Mbps Throughput

Superior Processing by airMAX Engine with Custom IC

Plug and Play Integration with airMAX ac Antennas



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Overview

Ubiquiti Networks has designed the first airMAX[®] ac radios with high performance and ease of installation in mind. You have the freedom to deploy the Rocket[™] ac anywhere in the world, and it allows for a high degree of flexibility in configuring channel bandwidths (subject to local country regulations).

The Rocket ac is available as three models: the Rocket5ac Lite, Rocket5ac PtP, and Rocket5ac PtMP. All three include airMAX ac technology. The Rocket5ac PtP and Rocket5ac PtMP also feature airPrism[™] technology to further enhance performance.

Pair the Rocket ac with airMAX ac antennas for optimal performance:

- PtP backhaul Rocket5ac Lite or Rocket5ac PtP with the RocketDish[™] ac
- PtMP links Rocket5ac PtMP or Rocket5ac Lite* with the airMAX ac Sector
- * PtMP functionality is available with a firmware upgrade to airOS v7.1 or higher.

Software air0S°7

Sporting an all-new design for improved usability, airOS® v7 is the revolutionary operating system for Ubiquiti® airMAX ac products.

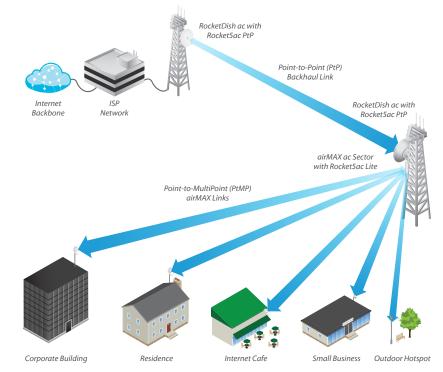
Powerful Wireless Features

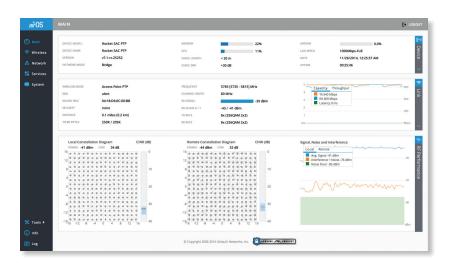
- airMAX ac Protocol Support
- Long-Range PtP Link Mode
- Selectable Channel Width
 - PtP: 10/20/30/40/50/60/80 MHz
 PtMP: 10/20/30/40 MHz
- Automatic Channel Selection
- TX Power Control: Auto/Manual
- Automatic Distance Selection (ACK Timing)
- Strongest WPA2 Security

Usability Enhancements

- Dynamic Configuration Changes
- Instant Input Validation
- HTML5 Technology
- Optimization for Mobile Devices
- Detailed Device Statistics
- Diagnostic Tools, including Ethernet Cabling Test, RF Diagnostics, and airView[®] Spectrum Analyzer







ac

Advanced RF Analytics

airMAX ac devices feature a multi-radio architecture to power a revolutionary RF analytics engine.

An independent processor on the PCBA powers a second, dedicated radio, which persistently analyzes the full 5 GHz spectrum and every received symbol to provide you with the most advanced RF analytics in the industry.

Data from the spectrum analysis and RF performance monitoring is displayed on the *Main* tab and airView Spectrum Analyzer.

Real-Time Reporting

The *Main* tab displays the following RF information:

- Persistent RF Error Vector Magnitude (EVM) constellation diagrams
- Carrier to Interference-plus-Noise Ratio (CINR) histograms
- Signal-to-Noise Ratio (SNR) time series plots

Spectral Analysis

airView allows you to identify noise signatures and plan your networks to minimize noise interference. airView performs the following functions:

- Constantly monitors environmental noise
- Collects energy data points in real-time spectral views
- Helps optimize channel selection, network design, and wireless performance

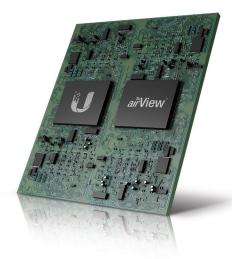
airView runs in the background without disabling the wireless link, so there is no disruption to the network.

In airView, there are three spectral views, each of which represents different data.

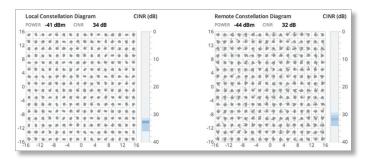
- Waterfall Aggregate energy collected for each frequency
- Waveform Aggregate energy collected
- Ambient Noise Level Background noise energy shown as a function of frequency

Available with a firmware upgrade to airOS v7.1, airView provides powerful spectrum analyzer functionality, eliminating the need to rent or purchase additional equipment for conducting site surveys.

Multi-Radio Architecture



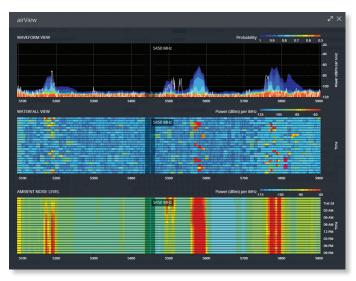
Constellation Diagrams and CINR Histograms



SNR Time Series Plots



Dedicated Spectral Analysis



airCRM

Powerfully scale your business with airCRM[™], a suite of WISP applications that help you manage your business. To sign up for the public beta, visit: **aircrm.ubnt.com**

air CRM Control

Provision, monitor, and manage all devices from a central interface. Enjoy quicker deployments, healthier networks, and faster customer service response times.

Use airCRM Control to perform the following tasks:

- Upgrade firmware
- Manage passwords
- Monitor and analyze network traffic
- Manage devices

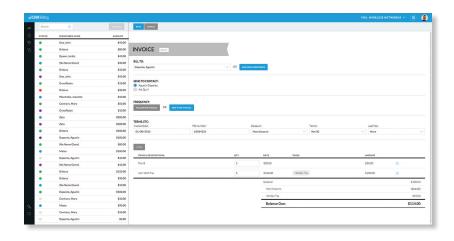
air CRM Billing

A streamlined billing and customer management solution delivers automated invoicing, payment reminders, and credit card processing with Authorize.Net.

Use airCRM Billing to perform the following tasks:

- Create invoices
- Manage accounts
- Enable a customer portal
- · Generate detailed reports

	FILT	FER BY:	Q AP 5	TATION					• West O	ffice % Co	onfigure	
	÷.	DEVICE NAME	CAPACITY		IP ADDRESS	SSID	MODE	FREQUENCY	PRODUCT	NAME: NanoSta	ation Loco M	5
Г	0	Napa		·	192.168.1.30	UW_11	Station	5315 MHz				
	٠	Campus Cafe	_	2.45 Mbps	192.168.1.2	UW_11	Station	5315 MHz			STATS	
	٠	Campus West		5.68 Mbps	192.168.1.45	UW_11	Station	5315 MHz		Past 24 hours/	/Top 20 clien	15 😢
	٠	Claremont		7 Mbps	192.168.1.125	UW_11	Station	5315 MHz	EFFICIENCY	_		
	٠	Denali Bend	Real Property lies	65.68 Mbps (6)	192.168.1.48	Mezzo_EN2	Access Point	2429 MHz	51410			
	٠	Escarpa		15 Mbps	192.168.1.11	UW_11	Station	5315 MHz	CUENT 1	AIRTIM	IE SIGNAL	CAPACITY
	٠	Glass House		15.25 Mbps	192.168.1.25	UW_11	Station	5315 MHz	• 192.168.1.12	2%	-61	15 Mbps
	٠	KANET-C1		20 Mbps	192.168.1.98	Mezzo_EN2	Station	2429 MHz	• 192.168.1.12 NanoStation M5	2%	-61	15 MDps
	٠	KANET-C2		17.34 Mbps	192.168.1.101	Mezzo_EN2	Station	2429 MHz	• 192.168.1.13 1649 Ave. 54	1%	-61	5.68 Mbp
	٠	Lakeview Terrace		53.82 Mbps (10)	192.168.1.88	UW_11	Access Point	5315 MHz	• 192.168.1.14	3%	-61	7 Mbps
	٠	Marigold Mt.		18.23 Mbps	192.168.1.32	UW_11	Station	5315 MHz	1821 Atherton	376	101	7 MUUS
	٠	Millbridge		40 Mbps	192.168.1.21	UW_11	Station	5315 MHz	 192.168.1.15 18 McKinley 	5%	-61	17.34 Mt
	٠	North Pacific		18.67 Mbps	192.168.1.22	UW_11	Station	5315 MHz	• 192.168.1.16	7%	-61	40 Mbps
	٠	NanoStation M5		84 Mbps (3)	192.168.1.73	WMTC_Primary	Access Point	5840 MHz	44 Boyd	/%	101	40 Mups
	٠	NanoStation M2		19.85 Mbps	192.168.1.72	Mezzo_EN2	Station	2429 MHz	• 192.168.1.17 Rocket M5	13%	-61	18.67 Mt
	٠	North Pacific		50 Mbps	192.168.1.51	UW_11	Station	5315 MHz	• 192.168.1.16			
	٠	Ridgeview		32.33 Mbps	192.168.1.61	WMTC_Primary	Station	5840 MHz				
	٠	Stratford		38.75 Mbps	192.168.1.17	WMTC_Primary	Station	5840 MHz	• 192.168.1.19 Windham Hish	1%	-61	38.75 Mt
	•	Talmadge		39.99 Mbps	192.168.1.27	Mezzo_EN2	Station	2429 MHz	• 192.168.1.20	4%	-61	43.12 Mt
	•	Verdugo		43.12 Mbps	192.168.1.81	Mezzo_EN2	Station	2429 MHz	158		-04	43.12 MD
·9-	•	West Lorry		59.12 Mbps	192.168.1.109	WMTC_Primary	Station	5840 MHz	• 192.168.1.21	5%	-61	59.12 Mb



Technology airMAX®

Unlike standard Wi-Fi protocol, Ubiquiti's Time Division Multiple Access (TDMA) airMAX ac 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, so airMAX ac technology provides performance improvements in latency, noise immunity, scalability, and throughput compared to other outdoor systems in its class.

Intelligent QoS Priority assigned to voice/video for seamless streaming.

Scalability High capacity and scalability.

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

Superior Performance

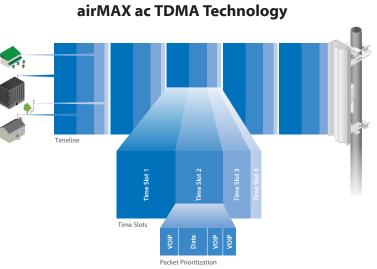
The next-generation airMAX ac technology boosts the advantages of our proprietary TDMA protocol.

Ubiquiti's airMAX engine with custom IC dramatically improves TDMA latency and network scalability. The custom silicon provides hardware acceleration capabilities to the airMAX scheduler, to support the high data rates and dense modulation used in airMAX ac technology.

Throughput Breakthrough

airMAX ac supports high data rates, which require dense modulation: 256QAM – a significant increase from 64QAM, which is used in airMAX.

With their use of proprietary airMAX ac technology, airMAX ac products supports up to 450+ Mbps real TCP/IP throughput – up to triple the throughput of standard airMAX products.

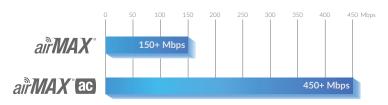


Up to 100 airMAX ac stations can be connected to an airMAX ac Sector; four airMAX ac stations are shown to illustrate the general concept.

airMAX ac Network Scalability



Superior Throughput Performance



Technology air**PPIS**M

To enhance airMAX ac performance, Ubiquiti Networks introduces our patented airPrism[™] technology, which is featured on the Rocket ac models, R5AC-PTP and R5AC-PTMP.

Improves SNR

High data rates require a high Signal-to-Noise Ratio (SNR), which is challenging to achieve, especially in noisy, high-density areas.

Integrated into Ubiquiti's custom silicon, airPrism technology creates a high SNR by isolating signals within the operating channel and rejecting interference using specialized circuitry, the High-Selectivity Receiver (HSR).

Removes Interference

Depending on the product model and operating mode, available channel widths may include 10, 20, 30, 40, 50, 60, and/or 80 MHz.

Theoretically APs operate on different channels; however, because of the wider channel bandwidths, there can be overlap in spectrum usage.

airPrism technology removes up to an additional 30+ dB of adjacent channel interference through the active filtering design, so an airMAX ac AP with airPrism technology can provide significantly greater performance than a typical AP.

Active Radio Frequency Filtering

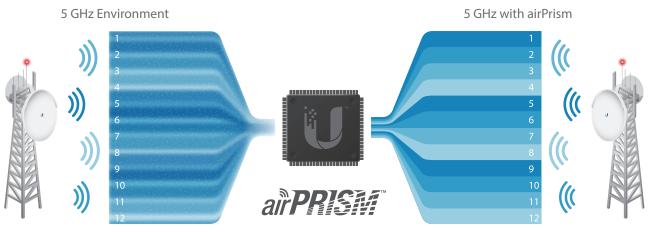
Facilitates AP Co-Location

Co-location is vital in many scenarios. For example, a WISP may have limited tower space, so it must co-locate all APs within that allotted footprint. Shielding and other means can lessen interference but may be impractical.

By deploying airMAX ac APs with airPrism technology, you can co-locate APs and enhance the overall performance of your wireless network.

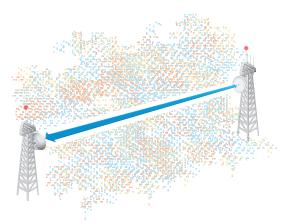
Number of APs	Channel Width
4	80 MHz*
8	40 MHz
16	20 MHz

* Supported by R5AC-PTP only.



What the Radio Sees

Improved Latency and Noise Immunity





Features

5 GHz Frequency Band This unlicensed band of plentiful spectrum works well for long-distance links.

Gigabit Ethernet Deliver high throughput over its wired connection.

Rocket5ac Lite

Launched with PtP functionality, the Rocket5ac Lite adds PtMP functionality with a firmware upgrade to airOS v7.1 or higher.

Passive Power over Ethernet (PoE)

24V Passive PoE functionality is included. Both power and data are carried over a single Ethernet cable to the Rocket ac. Use the included PoE Adapter or an optional PoE switch.

Rocket5ac PtP

Featuring Ubiquiti's innovative airPrism technology, the Rocket5ac PtP is ideal for PtP links in noisy, high-density areas. **Plug and Play Integration** Every airMAX antenna has a built-in Rocket mount, so no tools are needed to install the Rocket ac. (airMAX ac antennas are recommended for optimal performance.)

Rocket5ac PtMP

Also featuring airPrism technology, the Rocket5ac PtMP is ideal for PtMP links to airMAX ac CPEs located in crowded RF environments.

Model Comparison Chart

	A. J. J. Transfer C	raakar 13		
	Rocket5ac Lite	Rocket5ac PtP	Rocket5ac PtMP	
Model Number	R5AC-Lite	R5AC-PTP	R5AC-PTMP	
Frequency	Full-Band 5 GHz	Mid-Band 5 GHz	Mid-Band 5 GHz	
airMAX ac Technology	\checkmark	\checkmark	\checkmark	
airPrism Technology		\checkmark	\checkmark	
Point-to-Point Functionality	\checkmark	\checkmark		
Point-to-MultiPoint Functionality	√*		\checkmark	
Gigabit Ethernet	\checkmark	\checkmark	\checkmark	
Ubiquiti PoE	\checkmark	\checkmark	\checkmark	
Output Power	27 dBm	27 dBm	27 dBm	

Requires firmware airOS v7.1 or higher.

Specifications

	R5AC-Lite Physical / Electrical / Environmental Information
Dimensions	162 x 84 x 37 mm (6.38 x 3.31 x 1.46")
Weight	250 g (8.81 oz)
Enclosure Characteristics	Outdoor UV Stabilized Plastic
Processor	Atheros MIPS 74Kc, 720 MHz
Memory	128 MB DDR2 SDRAM, 16 MB NOR FLASH
Networking Interface	(1) 10/100/1000 Mbps
RF Connections	(2) RP-SMA (Waterproof)
LEDs	Power, LAN, (4) Signal Strength
Max. Power Consumption	8.5W
Power Supply	24V, 0.5A Gigabit PoE Adapter
Power Method	Passive PoE (Pairs 4, 5+; 7, 8 Return)
Supported Voltage Range	20-26VDC
ESD/EMP Protection	± 24KV Air / Contact
Operating Temperature	-40 to 80° C (-40 to 176° F)
Operating Humidity	5 to 95% Noncondensing
Shock and Vibration	ETSI300-019-1.4

R5AC-Lite Software Ir	nformation
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Modes	Access Point, Station
Services	Web Server, SNMP, SSH Server, Telnet , Ping Watchdog, DHCP, NAT, Bridging, Routing
Utilities	Antenna Alignment Tool, Discovery Utility, Site Survey, Ping, Traceroute, Speed Test
Distance Adjustment	Dynamic Ack and Ackless Mode
Power Adjustment	Software Adjustable UI or CLI
Security	WPA2 AES Only
QoS	Supports Packet Level Classification WMM and User Customer Level: High/Medium/Low
Statistical Reporting	Up Time, Packet Errors, Data Rates, Wireless Distance, Ethernet Link Rate
Channel Sizes PtP Mode PtMP Mode	10/20/30/40/50/60/80 MHz 10/20/30/40 MHz
Other	Remote Reset Support, Software Enabled/Disabled, VLAN Support, 256QAM
Ubiquiti Specific Features	30/50/60 MHz Channels, airMAX ac Mode, Traffic Shaping with Burst Support, Discovery Protocol, Frequency Band Offset, Ackless Mode

Datasheet

FCC, IC, CE

Yes

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R5AC-Lite Compliance

Wireless Approvals

RoHS Compliance

Operating Frequency			Worldwide: 5150 - 5875 MHz USA: 5725 - 5850 MHz				
Output Power			27 dBm				
	TX Power Specif	fications			RX Power Spec	fications	
Modulation	Data Rate	Avg. TX	Tolerance	Modulation	Data Rate	Sensitivity	Toleranc
	1x BPSK (1/2)	27 dBm	±2dB		1x BPSK (1/2)	-96 dBm	±2dB
	2x QPSK (1/2)	27 dBm	±2dB	airMAX ac	2x QPSK (1/2)	-95 dBm	± 2 dB
	2x QPSK (¾)	27 dBm	±2dB		2x QPSK (¾)	-92 dBm	± 2 dB
	4x 16QAM (1/2)	27 dBm	±2dB		4x 16QAM (1/2)	-90 dBm	± 2 dB
airMAX ac	4x 16QAM (¾)	27 dBm	±2dB		4x 16QAM (¾)	-86 dBm	± 2 dB
airM/	6x 64QAM (⅔)	27 dBm	±2dB		6x 64QAM (⅔)	-83 dBm	±2dB
	6x 64QAM (¾)	26 dBm	±2dB		6x 64QAM (¾)	-77 dBm	± 2 dB
	6x 64QAM (%)	25 dBm	±2dB		6x 64QAM (5%)	-74 dBm	± 2 dB
	8x 256QAM (¾)	23 dBm	±2dB		8x 256QAM (¾)	-69 dBm	± 2 dB
	8x 256QAM (%)	22 dBm	± 2 dB		8x 256QAM (%)	-65 dBm	± 2 dB



Specifications

	R5AC-PTP Physical / Electrical / Environmental Information
Dimensions	198.5 x 86.4 x 44.1 mm (7.82 x 3.40 x 1.74")
Weight	295 g (10.41 oz)
Enclosure Characteristics	Outdoor UV Stabilized Plastic
Processor	Atheros MIPS 74Kc, 720 MHz
Memory	128 MB DDR2 SDRAM, 16 MB NOR FLASH
Networking Interface	(1) 10/100/1000 Mbps
RF Connections	(2) RP-SMA (Waterproof)
LEDs	Power, LAN, (4) Signal Strength
Max. Power Consumption	8.5W
Power Supply	24V, 0.5A Gigabit PoE Adapter
Power Method	Passive PoE (Pairs 4, 5+; 7, 8 Return)
Supported Voltage Range	20-26VDC
ESD/EMP Protection	± 24KV Air / Contact
Operating Temperature	-40 to 80° C (-40 to 176° F)
Operating Humidity	5 to 95% Noncondensing
Shock and Vibration	ETSI300-019-1.4

R5AC-PTP S	oftware In	formation
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Modes	Access Point, Station, PtP Only
Services	Web Server, SNMP, SSH Server, Telnet , Ping Watchdog, DHCP, NAT, Bridging, Routing
Utilities	Antenna Alignment Tool, Discovery Utility, Site Survey, Ping, Traceroute, Speed Test
Distance Adjustment	Dynamic Ack and Ackless Mode
Power Adjustment	Software Adjustable UI or CLI
Security	WPA2 AES Only
QoS	Supports Packet Level Classification WMM and User Customer Level: High/Medium/Low
Statistical Reporting	Up Time, Packet Errors, Data Rates, Wireless Distance, Ethernet Link Rate
Channel Sizes (PtP Mode)	10/20/30/40/50/60/80 MHz
Other	Remote Reset Support, Software Enabled/Disabled, VLAN Support, 256QAM
Ubiquiti Specific Features	30/50/60 MHz Channels, airMAX ac Mode, Traffic Shaping with Burst Support, Discovery Protocol, Frequency Band Offset, Ackless Mode

DATASHEET

FCC, IC, CE

Yes

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Wireless Approvals

RoHS Compliance

6x 64QAM (¾)

6x 64QAM (%)

8x 256QAM (3/4)

8x 256QAM (%)

26 dBm

25 dBm

23 dBm

22 dBm

 $\pm 2 \, dB$

 $\pm 2 \, dB$

 $\pm 2 \, dB$

 $\pm 2 \text{ dB}$

			R5AC-PTP Op	erating Frequer	су		
Operating Frequency Output Power			Worldwide: 5470 - 5875 MHz USA: 5725 - 5850 MHz				
				27 dBm			
TX Power Specifications				RX Power Specifications			
Modulation	Data Rate	Avg. TX	Tolerance	Modulation	Data Rate	Sensitivity	Tolerance
	1x BPSK (1/2)	27 dBm	±2dB	\X ac	1x BPSK (1/2)	-96 dBm	±2dB
	2x QPSK (1/2)	27 dBm	±2dB		2x QPSK (1/2)	-95 dBm	± 2 dB
	2x QPSK (¾)	27 dBm	±2dB		2x QPSK (¾)	-92 dBm	± 2 dB
	4x 16QAM (1/2)	27 dBm	±2dB		4x 16QAM (1/2)	-90 dBm	± 2 dB
airMAX ac	4x 16QAM (¾)	27 dBm	±2 dB		4x 16QAM (¾)	-86 dBm	± 2 dB
airM/	6x 64QAM (⅔)	27 dBm	±2dB	airMAX	6x 64QAM (⅔)	-83 dBm	± 2 dB
				1			

6x 64QAM (¾)

6x 64QAM (5%)

8x 256QAM (3/4)

8x 256QAM (5%)

-77 dBm

-74 dBm

-69 dBm

-65 dBm

 $\pm 2 \text{ dB}$

 $\pm 2 \text{ dB}$

 $\pm 2 \text{ dB}$

 $\pm 2 \, dB$



Specifications

	R5AC-PTMP Physical / Electrical / Environmental Information
Dimensions	198.5 x 86.4 x 44.1 mm (7.82 x 3.40 x 1.74")
Weight	295 g (10.41 oz)
Enclosure Characteristics	Outdoor UV Stabilized Plastic
Processor	Atheros MIPS 74Kc, 720 MHz
Memory	128 MB DDR2 SDRAM, 16 MB NOR FLASH
Networking Interface	(1) 10/100/1000 Mbps
RF Connections	(2) RP-SMA (Waterproof)
LEDs	Power, LAN, (4) Signal Strength, (5) Reserved
Max. Power Consumption	8.5W
Power Supply	24V, 0.5A Gigabit PoE Adapter
Power Method	Passive PoE (Pairs 4, 5+; 7, 8 Return)
Supported Voltage Range	20-26VDC
ESD/EMP Protection	± 24KV Air / Contact
Operating Temperature	-40 to 80° C (-40 to 176° F)
Operating Humidity	5 to 95% Noncondensing
Shock and Vibration	ETSI300-019-1.4

R5AC-PTMP	Software	Information

Modes	Access Point, PtMP Only
Services	Web Server, SNMP, SSH Server, Telnet , Ping Watchdog, DHCP, NAT, Bridging, Routing
Utilities	Antenna Alignment Tool, Discovery Utility, Site Survey, Ping, Traceroute, Speed Test
Distance Adjustment	Dynamic Ack and Ackless Mode
Power Adjustment	Software Adjustable UI or CLI
Security	WPA2 AES Only
QoS	Supports Packet Level Classification WMM and User Customer Level: High/Medium/Low
Statistical Reporting	Up Time, Packet Errors, Data Rates, Wireless Distance, Ethernet Link Rate
Channel Sizes (PtMP Mode)	10/20/30/40 MHz
Other	Remote Reset Support, Software Enabled/Disabled, VLAN Support, 256QAM
Ubiquiti Specific Features	30 MHz Channels, airMAX ac Mode, Traffic Shaping with Burst Support Discovery Protocol, Frequency Band Offset, Ackless Mode

FCC, IC, CE

Yes

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R5AC-PTMP Compliance

Wireless Approvals

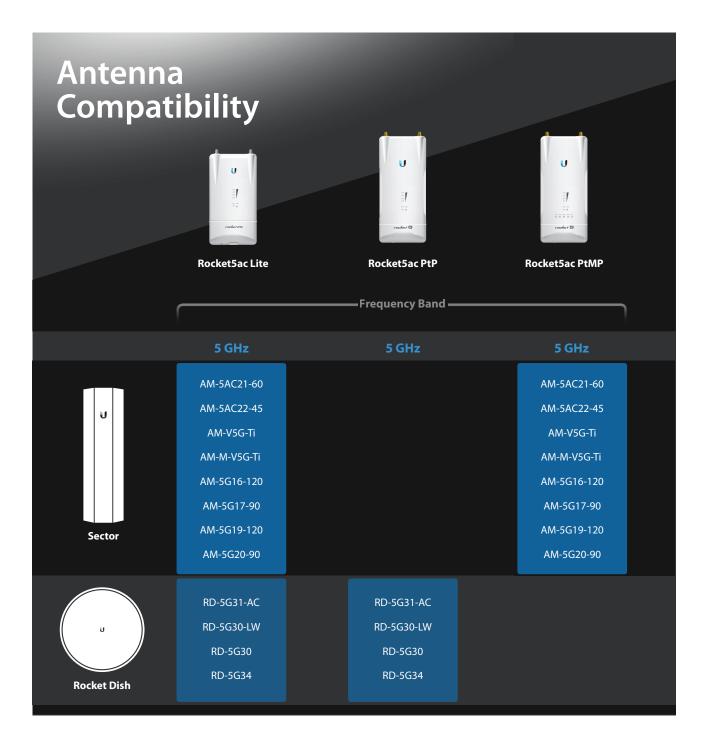
RoHS Compliance

Operating Frequency		Worldwide: 5470 - 5875 MHz USA: 5725 - 5850 MHz						
Output Power		27 dBm						
TX Power Specifications			RX Power Specifications					
Modulation	Data Rate	Avg. TX	Tolerance	Modulation	Data Rate	Sensitivity	Tolerance	
airMAX ac	1x BPSK (1/2)	27 dBm	±2dB	airMAX ac	1x BPSK (1/2)	-96 dBm	± 2 dB	
	2x QPSK (1/2)	27 dBm	±2dB		2x QPSK (1/2)	-95 dBm	± 2 dB	
	2x QPSK (¾)	27 dBm	±2dB		2x QPSK (¾)	-92 dBm	± 2 dB	
	4x 16QAM (1/2)	27 dBm	±2dB		4x 16QAM (1/2)	-90 dBm	± 2 dB	
	4x 16QAM (¾)	27 dBm	±2 dB		4x 16QAM (¾)	-86 dBm	± 2 dB	
	6x 64QAM (⅔)	27 dBm	±2dB		6x 64QAM (⅔)	-83 dBm	±2dB	
	6x 64QAM (¾)	26 dBm	±2 dB		6x 64QAM (¾)	-77 dBm	±2dB	
	6x 64QAM (%)	25 dBm	±2dB		6x 64QAM (5%)	-74 dBm	±2dB	
	8x 256QAM (¾)	23 dBm	±2dB		8x 256QAM (¾)	-69 dBm	±2dB	
	8x 256QAM (%)	22 dBm	±2dB		8x 256QAM (%)	-65 dBm	± 2 dB	



Plug and Play Integration

Rocket radios and airMAX antennas have been designed to seamlessly work together. Every airMAX antenna has a built-in Rocket mount, so installation requires no special tools.



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