DATASHEET



PUB/1617

Powerful 2x2 MIMO airMAX® BaseStation

Models: M5, RM5-Ti, M3, M365, M2, RM2-Ti, M900

Advanced Software Technology to Maximize Performance

Plug and Play Integration with airMAX Antennas

Frequency and Channel Flexibility



Overview

Featuring mix-and-match industrial design, the Rocket[™] is a Ubiquiti Networks[®] airMAX[®] BaseStation that supports speeds of up to 150+ Mbps real TCP/IP throughput. It is ideal for deployment in Point-to-Point (PtP) bridging or Point-to-MultiPoint (PtMP) airMAX applications.

Flexibility

The Rocket is available in several frequency models: 900 MHz, 2.4 GHz, 3/3.65 GHz, and 5 GHz, to support your specific application. You have the freedom to locate, deploy, and operate the Rocket in these unlicensed bands (subject to local country regulations).

The Rocket allows for a high degree of flexibility in configuring channel bandwidths: 2, 3, 5, 8, 10, 20, 25, 30, and/or 40 MHz, depending on the specific product model and local country regulations.

Plug and Play Integration

Rocket radios and airMAX antennas have been designed to seamlessly work together. Every airMAX Sector, RocketDish™, Omni, or Yagi antenna has a built-in Rocket mount, so installation requires no special tools. Snap the Rocket securely into place and mount the antenna; then you have the optimal combination of Rocket radio and airMAX antenna for your PtP or PtMP application.

airMAX Technology Included

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.

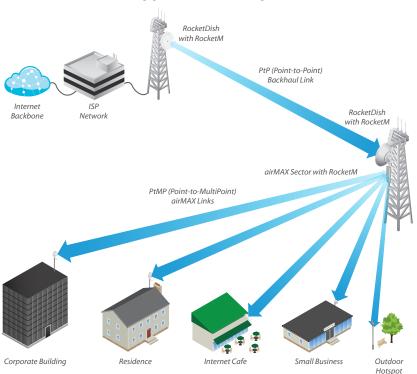
This time slot method eliminates hidden node collisions and maximizes airtime efficiency. It provides many magnitudes of performance improvements in latency, throughput, and scalability compared to all other outdoor systems in its class.

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

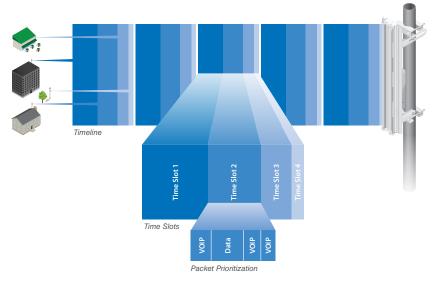
Scalability High capacity and scalability.

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

Application Example



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

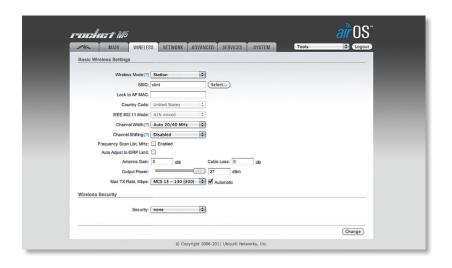
Built upon an intuitive user interface foundation, airOS® 5 is an advanced operating system for Ubiquiti airMAX M Series products.

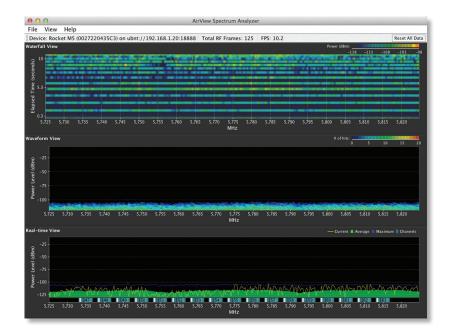
- airMAX Protocol Support
- · Long-Range PtP Link Mode
- Transmit Power Control: Automatic/Manual
- Automatic Distance Selection (ACK Timing)
- Device Statistics
- Diagnostic Tools



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.





air Control

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



5 GHz Models

The 5 GHz frequency band is free to use, worldwide, offers plentiful spectrum, and works well for long-distance links. However, 5 GHz signals have more difficulty passing through obstacles than lower-frequency signals.

M5

The Rocket enclosure is built to survive harsh environments and fits the Rocket mount built into every airMAX antenna. Pair the Rocket with the appropriate antenna for your PtP link or PtMP network.



RM5-Ti

Its Gigabit Ethernet connection delivers high throughput, and its aircraft-grade aluminum casing improves performance in harsh RF environments and extreme weather conditions.



3/3.65 GHz Models

The 3 or 3.65 GHz frequency band is noise-free in most areas; however, its use requires a license. There may be additional restrictions on its use depending on local country regulations.

M3

The Rocket enclosure is built to survive harsh environments and fits the Rocket mount built into every airMAX antenna. Pair the Rocket with the appropriate antenna for your PtP link or PtMP network.



M365

The Rocket enclosure is built to survive harsh environments and fits the Rocket mount built into every airMAX antenna. Pair the Rocket with the appropriate antenna for your PtP link or PtMP network.





2.4 GHz Models

The 2.4 GHz frequency band is free to use, worldwide; however, it is extremely crowded due to interference from other wireless devices. Also, there are only three non-overlapping, 20 MHz channels available for use.

M2

The Rocket enclosure is built to survive harsh environments and fits the Rocket mount built into every airMAX antenna. Pair the Rocket with the appropriate antenna for your PtP link or PtMP network.



RM2-Ti

Its Gigabit Ethernet connection delivers high throughput, and its aircraft-grade aluminum casing improves performance in harsh RF environments and extreme weather conditions.



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900 MHz Model

The 900 MHz frequency band has a higher tolerance for obstacles that may obstruct line of sight; however noise levels are typically higher. Also its use may require a license in some parts of the world.

M900

The Rocket enclosure is built to survive harsh environments and fits the Rocket mount built into every airMAX antenna. Pair the Rocket with the appropriate antenna for your PtP link or PtMP network.



roeket M5

M5 Physical / Electrical / Environmental Information				
Dimensions	160 x 80 x 30 mm (6.30 x 3.15 x 1.18")			
Weight	500 g (1.1 lb)			
Enclosure Characteristics	Outdoor UV Stabilized Plastic			
Processor	MIPS 74Kc			
Memory	128 MB SDRAM, 8 MB Flash			
Networking Interface	(1) 10/100 Mbps			
RF Connections	(2) RP-SMA (Waterproof)			
LEDs	Power, Ethernet, (4) Signal Strength			
Max. Power Consumption	8W			
Power Supply	24V, 1A PoE Adapter			
Power Method	Passive PoE (Pairs 4, 5+; 7, 8 Return)			
ESD/EMP Protection	± 24KV Air / Contact			
Operating Temperature	-30 to 75° C (-22 to 167° F)			
Operating Humidity	5 to 95% Noncondensing			
Shock and Vibration	ETSI300-019-1.4			

M5 Software Information				
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			
Other	Remote Reset Support, Software Enabled/Disabled, VLAN Support, 64QAM, 5/8/10/20/30/40 MHz Channel Width Support			
Ubiquiti Specific Features	airMAX Mode, Traffic Shaping with Burst Support, Discovery Protocol, Frequency Band Offset, Ackless Mode			

	M5 Compliance
Wireless Approvals	FCC, IC, CE
RoHS Compliance	Yes

M5 Operating Frequency							
Operating Frequency			Worldwide: 5170 - 5875 MHz				
Operating Frequency		USA: 5725 - 5850 MHz*					
Output Powe	Output Power						27 dBm
	TX Power S	pecifications		RX Power Specifications			
Modulation	Data Rate	Avg. TX	Tolerance	Modulation	Data Rate	Sensitivity	Tolerance
	6 - 24 Mbps	27 dBm	± 2 dB		6 - 24 Mbps	-94 dBm Min.	± 2 dB
1.	36 Mbps	25 dBm	± 2 dB	1.5	36 Mbps	-80 dBm	± 2 dB
802.11a	48 Mbps	23 dBm	± 2 dB	802.11a	48 Mbps	-77 dBm	± 2 dB
60	54 Mbps	22 dBm	± 2 dB	60	54 Mbps	-75 dBm	± 2 dB
	MCS0	27 dBm	± 2 dB	×	MCS0	-96 dBm	± 2 dB
	MCS1	27 dBm	± 2 dB		MCS1	-95 dBm	± 2 dB
	MCS2	27 dBm	± 2 dB		MCS2	-92 dBm	± 2 dB
	MCS3	27 dBm	± 2 dB		MCS3	-90 dBm	± 2 dB
	MCS4	26 dBm	± 2 dB		MCS4	-86 dBm	± 2 dB
×	MCS5	24 dBm	± 2 dB		MCS5	-83 dBm	± 2 dB
MA	MCS6	22 dBm	± 2 dB	MA	MCS6	-77 dBm	± 2 dB
802.11n/airMAX	MCS7	21 dBm	± 2 dB	802.11n/airMAX	MCS7	-74 dBm	± 2 dB
11 n	MCS8	27 dBm	± 2 dB		MCS8	-95 dBm	± 2 dB
02.	MCS9	27 dBm	± 2 dB	02.	MCS9	-93 dBm	± 2 dB
ŏ.	MCS10	27 dBm	± 2 dB	œ ·	MCS10	-90 dBm	± 2 dB
	MCS11	27 dBm	± 2 dB		MCS11	-87 dBm	± 2 dB
	MCS12	26 dBm	± 2 dB		MCS12	-84 dBm	± 2 dB
	MCS13	24 dBm	± 2 dB		MCS13	-79 dBm	± 2 dB
	MCS14	22 dBm	± 2 dB		MCS14	-78 dBm	± 2 dB
	MCS15	21 dBm	± 2 dB		MCS15	-75 dBm	± 2 dB

^{*} US units with FCC ID: SWX-RM5 are allowed 5250 - 5850 MHz.















	RM5-Ti Physical / Electrical / Environmental Information
Dimensions	160 x 80 x 44 mm (6.30 x 3.15 x 1.73")
Weight	350 g (12.35 oz)
Enclosure Characteristics	Die-Cast Aluminum
Processor	MIPS 74Kc
Memory	128 MB SDRAM, 8 MB Flash
Networking Interface	(1) 10/100/1000 Mbps (1) 10/100 Mbps
RF Connections	(2) RP-SMA (Waterproof), 1 SMA (GPS)
LEDs	Power, (2) Ethernet, (6) Signal Strength, GPS
Max. Power Consumption	8W
Power Supply	48V, 0.5A PoE Adapter
Power Method	Passive PoE (Pairs 4, 5+; 7, 8 Return) 802.3af Compliant
ESD/EMP Protection	± 30KV Air / Contact
Operating Temperature	-30 to 75° C (-22 to 167° F)
Operating Humidity	5 to 95% Noncondensing
Shock and Vibration	ETSI300-019-1.4

RM5-Ti Software Information				
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			
Other	Remote Reset Support, Software Enabled/Disabled, VLAN Support, 64QAM, 5/8/10/20/30/40 MHz Channel Width Support			
Ubiquiti Specific Features	airMAX Mode, Traffic Shaping with Burst Support, Discovery Protocol, Frequency Band Offset, Ackless Mode			

	RM5-Ti Compliance
Wireless Approvals	FCC, IC, CE
RoHS Compliance	Yes

RM5-Ti Operating Frequency							
Operating Frequency		Worldwide: 5170 - 5875 MHz					
		USA: 5725 - 5850 MHz*					
Output Powe							27 dBm
	TX Power S	pecifications			RX Power	Specifications	
Modulation	Data Rate	Avg. TX	Tolerance	Modulation	Data Rate	Sensitivity	Tolerance
Œ	6 - 24 Mbps	27 dBm	± 2 dB	Œ	6 - 24 Mbps	-94 dBm Min.	± 2 dB
<u> </u>	36 Mbps	25 dBm	± 2 dB	<u> </u>	36 Mbps	-80 dBm	± 2 dB
802.11a	48 Mbps	23 dBm	± 2 dB	802.11a	48 Mbps	-77 dBm	± 2 dB
ω	54 Mbps	22 dBm	± 2 dB	ω	54 Mbps	-75 dBm	± 2 dB
	MCS0	27 dBm	± 2 dB	×	MCS0	-96 dBm	± 2 dB
	MCS1	27 dBm	± 2 dB		MCS1	-95 dBm	± 2 dB
	MCS2	27 dBm	± 2 dB		MCS2	-92 dBm	± 2 dB
	MCS3	27 dBm	± 2 dB		MCS3	-90 dBm	± 2 dB
	MCS4	26 dBm	± 2 dB		MCS4	-86 dBm	± 2 dB
×	MCS5	24 dBm	± 2 dB		MCS5	-83 dBm	± 2 dB
MA	MCS6	22 dBm	± 2 dB	MA	MCS6	-77 dBm	± 2 dB
/air	MCS7	21 dBm	± 2 dB	/air	MCS7	-74 dBm	± 2 dB
802.11n/airMAX	MCS8	27 dBm	± 2 dB	802.11n/airMAX	MCS8	-95 dBm	± 2 dB
02.1	MCS9	27 dBm	± 2 dB	02.1	MCS9	-93 dBm	± 2 dB
8	MCS10	27 dBm	± 2 dB	× ×	MCS10	-90 dBm	± 2 dB
	MCS11	27 dBm	± 2 dB		MCS11	-87 dBm	± 2 dB
	MCS12	26 dBm	± 2 dB		MCS12	-84 dBm	± 2 dB
	MCS13	24 dBm	± 2 dB		MCS13	-79 dBm	± 2 dB
	MCS14	22 dBm	± 2 dB		MCS14	-78 dBm	± 2 dB
	MCS15	21 dBm	± 2 dB		MCS15	-75 dBm	± 2 dB

* US units with FCC ID: SWX-RM5T-DFS are allowed 5250 - 5850 MHz.















PUGAG 1 M3 / M365

M3/M365 Physical / Electrical / Environmental Information					
Dimensions	160 x 80 x 30 mm (6.30 x 3.15 x 1.18")				
Weight	500 g (1.1 lb)				
Enclosure Characteristics	Outdoor UV Stabilized Plastic				
Processor	MIPS 24Kc				
Memory	64 MB SDRAM, 8 MB Flash				
Networking Interface	(1) 10/100 Mbps				
RF Connections	(2) RP-SMA (Waterproof)				
LEDs	Power, Ethernet, (4) Signal Strength				
Max. Power Consumption	6.5W				
Power Supply	24V, 1A PoE Adapter				
Power Method	Passive PoE (Pairs 4, 5+; 7, 8 Return)				
ESD/EMP Protection	± 24KV Air / Contact				
Operating Temperature	-30 to 75° C (-22 to 167° F)				
Operating Humidity	5 to 95% Noncondensing				
Shock and Vibration	ETSI300-019-1.4				

M3/M365 Software Information				
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			
Other	Remote Reset Support, Software Enabled/Disabled, VLAN Support, 64QAM			
M3	5/8/10/20/25/40 MHz Channel Width Support			
M365	5/10/20/25 MHz Channel Width Support			
Ubiquiti Specific Features	airMAX Mode, Traffic Shaping with Burst Support, Discovery Protocol, Frequency Band Offset, Ackless Mode			

	M3/M365 Compliance
Wireless Approvals	
M3	FCC, IC, CE
M365	FCC Part 90Y
RoHS Compliance	Yes

			М3/М365 Оре	rating Frequenc	у		
Operating Fre	equency						
M3						33	70 - 3730 MHz*
M365						3	650 - 3675 MHz
Output Powe	r						25 dBm
	TX Power S	pecifications			RX Power	Specifications	
Modulation	Data Rate	Avg. TX	Tolerance	Modulation	Data Rate	Sensitivity	Tolerance
	MCS0	25 dBm	± 2 dB		MCS0	-94 dBm Min.	± 2 dB
	MCS1	25 dBm	± 2 dB		MCS1	-93 dBm	± 2 dB
	MCS2	25 dBm	± 2 dB		MCS2	-90 dBm	± 2 dB
	MCS3	25 dBm	± 2 dB		MCS3	-89 dBm	± 2 dB
	MCS4	24 dBm	± 2 dB		MCS4	-86 dBm	± 2 dB
	MCS5	23 dBm	± 2 dB		MCS5	-83 dBm	± 2 dB
	MCS6	22 dBm	± 2 dB		MCS6	-77 dBm	± 2 dB
Ž	MCS7	20 dBm	± 2 dB	airMAX	MCS7	-74 dBm	± 2 dB
airMAX	MCS8	25 dBm	± 2 dB	Ž	MCS8	-93 dBm	± 2 dB
10	MCS9	25 dBm	± 2 dB	10	MCS9	-91 dBm	± 2 dB
	MCS10	25 dBm	± 2 dB		MCS10	-89 dBm	± 2 dB
	MCS11	25 dBm	± 2 dB		MCS11	-87 dBm	± 2 dB
	MCS12	24 dBm	± 2 dB		MCS12	-84 dBm	± 2 dB
	MCS13	23 dBm	± 2 dB		MCS13	-79 dBm	± 2 dB
	MCS14	22 dBm	± 2 dB		MCS14	-78 dBm	± 2 dB
	MCS15	20 dBm	± 2 dB		MCS15	-75 dBm	± 2 dB

^{*} RocketM3 not supported in the USA

















rocket M2

	M2 Physical / Electrical / Environmental Information
Dimensions	160 x 80 x 30 mm (6.30 x 3.15 x 1.18")
Weight	500 g (1.1 lb)
Enclosure Characteristics	Outdoor UV Stabilized Plastic
Processor	MIPS 24Kc
Memory	128 MB SDRAM, 8 MB Flash
Networking Interface	(1) 10/100 Mbps
RF Connections	(2) RP-SMA (Waterproof)
LEDs	Power, Ethernet, (4) Signal Strength
Max. Power Consumption	6.5W
Power Supply	24V, 1A PoE Adapter
Power Method	Passive PoE (Pairs 4, 5+; 7, 8 Return)
ESD/EMP Protection	± 24KV Air / Contact
Operating Temperature	-30 to 75° C (-22 to 167° F)
Operating Humidity	5 to 95% Noncondensing
Shock and Vibration	ETSI300-019-1.4

	M2 Software Information
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
Other	Remote Reset Support, Software Enabled/Disabled, VLAN Support, 64QAM, 5/8/10/20/30/40 MHz Channel Width Support
Ubiquiti Specific Features	airMAX Mode, Traffic Shaping with Burst Support, Discovery Protocol, Frequency Band Offset, Ackless Mode

	M2 Compliance
Wireless Approvals	FCC, IC, CE
RoHS Compliance	Yes

			M2 Operating Frequency				
Operating Fro	equency					24	402 - 2462 MHz
Output Power			28 dBm				
	TX Power S	pecifications		RX Power Specificatio		Specifications	
Modulation	Data Rate	Avg. TX	Tolerance	Modulation	Data Rate	Sensitivity	Tolerance
	1 - 24 Mbps	28 dBm	± 2 dB	-	1 - 24 Mbps	-97 dBm Min.	± 2 dB
802.11g	36 Mbps	26 dBm	± 2 dB	802.11g	36 Mbps	-80 dBm	± 2 dB
.02.	48 Mbps	25 dBm	± 2 dB	.02.	48 Mbps	-77 dBm	± 2 dB
80	54 Mbps	24 dBm	± 2 dB	- ω	54 Mbps	-75 dBm	± 2 dB
	MCS0	28 dBm	± 2 dB		MCS0	-96 dBm	± 2 dB
	MCS1	28 dBm	± 2 dB	802.11n/airMAX	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
802.11n/airMAX	MCS6	23 dBm	± 2 dB		MCS6	-77 dBm	± 2 dB
/air	MCS7	22 dBm	± 2 dB		MCS7	-74 dBm	± 2 dB
ī	MCS8	28 dBm	± 2 dB		MCS8	-95 dBm	± 2 dB
2.1	MCS9	28 dBm	± 2 dB	02.1	MCS9	-93 dBm	± 2 dB
×	MCS10	28 dBm	± 2 dB	×	MCS10	-90 dBm	± 2 dB
	MCS11	28 dBm	± 2 dB		MCS11	-87 dBm	± 2 dB
	MCS12	27 dBm	± 2 dB		MCS12	-84 dBm	± 2 dB
	MCS13	25 dBm	± 2 dB		MCS13	-79 dBm	± 2 dB
	MCS14	23 dBm	± 2 dB		MCS14	-78 dBm	± 2 dB
	MCS15	22 dBm	± 2 dB		MCS15	-75 dBm	± 2 dB













	RM2-Ti Physical / Electrical / Environmental Information
Dimensions	160 x 80 x 44 mm (6.30 x 3.15 x 1.73")
Weight	350 g (12.35 oz)
Enclosure Characteristics	Die-Cast Aluminum
Processor	MIPS 74Kc
Memory	128 MB SDRAM, 8 MB Flash
Networking Interface	(1) 10/100/1000 Mbps (1) 10/100 Mbps
RF Connections	(2) RP-SMA (Waterproof)
LEDs	Power, (2) Ethernet, (6) Signal Strength
Max. Power Consumption	6.5W
Power Supply	48V, 0.5A PoE Adapter
Power Method	Passive PoE (Pairs 4, 5+; 7, 8 Return) 802.3af Compliant
ESD/EMP Protection	± 30KV Air / Contact
Operating Temperature	-30 to 75° C (-22 to 167° F)
Operating Humidity	5 to 95% Noncondensing
Shock and Vibration	ETSI300-019-1.4

	RM2-Ti Software Information
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
Other	Remote Reset Support, Software Enabled/Disabled, VLAN Support, 64QAM, 5/8/10/20/30/40 MHz Channel Width Support
Ubiquiti Specific Features	airMAX Mode, Traffic Shaping with Burst Support, Discovery Protocol, Frequency Band Offset, Ackless Mode

RM2-Ti Compliance			
Wireless Approvals	FCC, IC, CE		
RoHS Compliance	Yes		

			RM2-Ti Opera	ating Frequency			
Operating Fr	equency					24	102 - 2462 MHz
Output Powe	er		28 dBm				
	TX Power S	pecifications		RX Power Specifications			
Modulation	Data Rate	Avg. TX	Tolerance	Modulation	Data Rate	Sensitivity	Tolerance
	1 - 24 Mbps	28 dBm	± 2 dB		1 - 24 Mbps	-97 dBm Min.	± 2 dB
110	36 Mbps	26 dBm	± 2 dB	100	36 Mbps	-80 dBm	± 2 dB
802.11g	48 Mbps	25 dBm	± 2 dB	802.11g	48 Mbps	-77 dBm	± 2 dB
00	54 Mbps	24 dBm	± 2 dB	~	54 Mbps	-75 dBm	± 2 dB
	MCS0	28 dBm	± 2 dB		MCS0	-96 dBm	± 2 dB
	MCS1	28 dBm	± 2 dB	802.11n/airMAX	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
MA	MCS6	23 dBm	± 2 dB		MCS6	-77 dBm	± 2 dB
/air	MCS7	22 dBm	± 2 dB		MCS7	-74 dBm	± 2 dB
802.11n/airMAX	MCS8	28 dBm	± 2 dB		MCS8	-95 dBm	± 2 dB
2.1	MCS9	28 dBm	± 2 dB		MCS9	-93 dBm	± 2 dB
8	MCS10	28 dBm	± 2 dB	8	MCS10	-90 dBm	± 2 dB
	MCS11	28 dBm	± 2 dB		MCS11	-87 dBm	± 2 dB
	MCS12	27 dBm	± 2 dB		MCS12	-84 dBm	± 2 dB
	MCS13 25 dBm ± 2 d	± 2 dB		MCS13	-79 dBm	± 2 dB	
	MCS14	23 dBm	± 2 dB		MCS14	-78 dBm	± 2 dB
	MCS15	22 dBm	± 2 dB		MCS15	-75 dBm	± 2 dB















rocket 1119

	M900 Physical / Electrical / Environmental Information
Dimensions	160 x 80 x 30 mm (6.30 x 3.15 x 1.18")
Weight	500 g (1.1 lb)
Enclosure Characteristics	Outdoor UV Stabilized Plastic
Processor	MIPS 24Kc
Memory	64 MB SDRAM, 8 MB Flash
Networking Interface	(1) 10/100 Mbps
RF Connections	(2) RP-SMA (Waterproof)
LEDs	Power, Ethernet, (4) Signal Strength
Max. Power Consumption	6.5W
Power Supply	24V, 1A PoE Adapter
Power Method	Passive PoE (Pairs 4, 5+; 7, 8 Return)
ESD/EMP Protection	± 24KV Air / Contact
Operating Temperature	-30 to 75° C (-22 to 167° F)
Operating Humidity	5 to 95% Noncondensing
Shock and Vibration	ETSI300-019-1.4

	M900 Software Information
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
Other	Remote Reset Support, Software Enabled/Disabled, VLAN Support, 64QAM, 3/5/8/10/20 MHz Channel Width Support
Ubiquiti Specific Features	airMAX Mode, Traffic Shaping with Burst Support, Discovery Protocol, Frequency Band Offset, Ackless Mode

	M900 Compliance
Wireless Approvals	FCC, IC, CE
RoHS Compliance	Yes

			M900 Opera	ting Frequency			
Operating Fre	equency						902 - 928 MHz
Output Power							28 dBm
	TX Power S	pecifications		RX Power Specifications			
Modulation	Data Rate	Avg. TX	Tolerance	Modulation	Data Rate	Sensitivity	Tolerance
	MCS0	28 dBm	± 2 dB		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	airMAX	MCS3	-90 dBm	± 2 dB
	MCS4	28 dBm	± 2 dB		MCS4	-86 dBm	± 2 dB
	MCS5	24 dBm	± 2 dB		MCS5	-83 dBm	± 2 dB
<u> </u>	MCS6	22 dBm	± 2 dB		MCS6	-77 dBm	± 2 dB
airMAX	MCS7	21 dBm	± 2 dB		MCS7	-74 dBm	± 2 dB
air	MCS8	28 dBm	± 2 dB		MCS8	-95 dBm	± 2 dB
10	MCS9	28 dBm	± 2 dB		MCS9	-93 dBm	± 2 dB
	MCS10	28 dBm	± 2 dB		MCS10	-90 dBm	± 2 dB
	MCS11	28 dBm	± 2 dB		MCS11	-87 dBm	± 2 dB
	MCS12	28 dBm	± 2 dB		MCS12	-84 dBm	± 2 dB
	MCS13	24 dBm	± 2 dB		MCS13	-79 dBm	± 2 dB
	MCS14	22 dBm	± 2 dB		MCS14	-78 dBm	± 2 dB
	MCS15	21 dBm	± 2 dB		MCS15	-75 dBm	± 2 dB



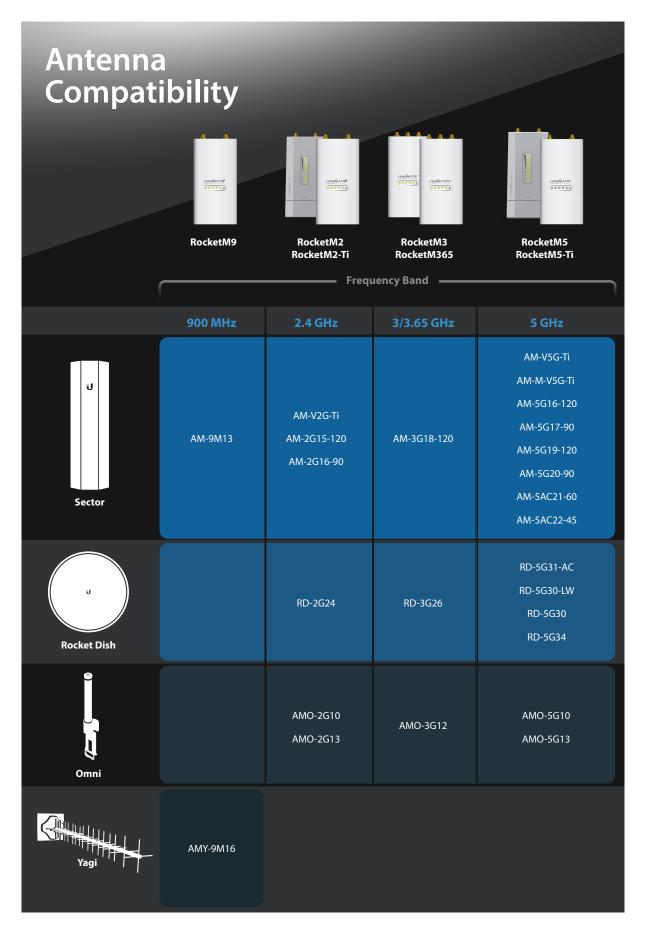












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