



## rocket™

Powerful 2x2 MIMO airMAX® BaseStation

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

Advanced Software Technology to Maximize Performance

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Plug and Play Integration with airMAX Antennas

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Frequency and Channel Flexibility



**UBIQUITI**  
NETWORKS®

# 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, RocketDisk™, 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.

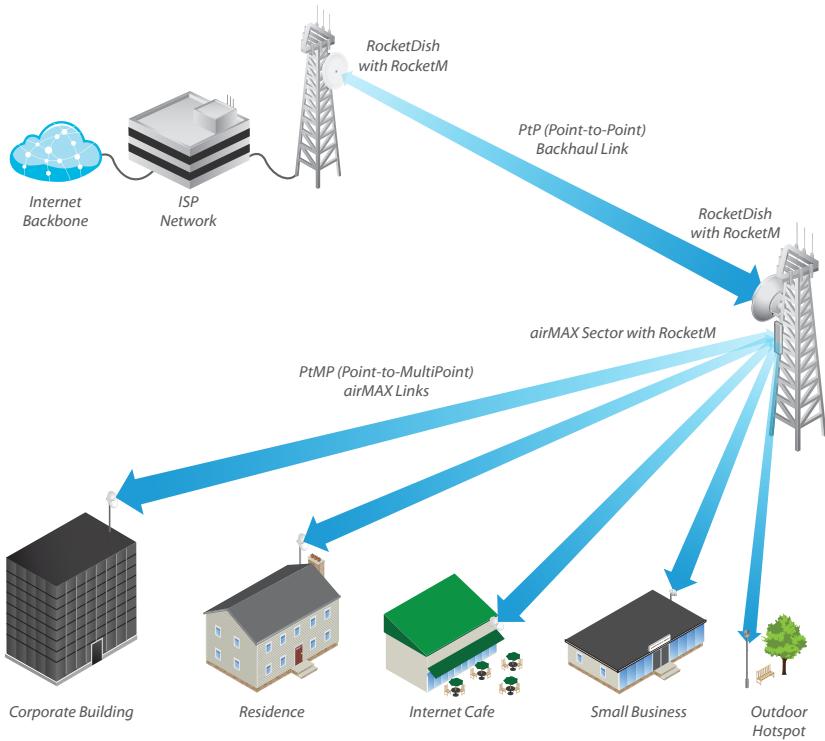
This time slot method eliminates hidden node collisions and maximizes airtime efficiency. It provides many magnitudes of performance improvements in latency, throughput, and scalability compared to all other outdoor systems in its class.

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

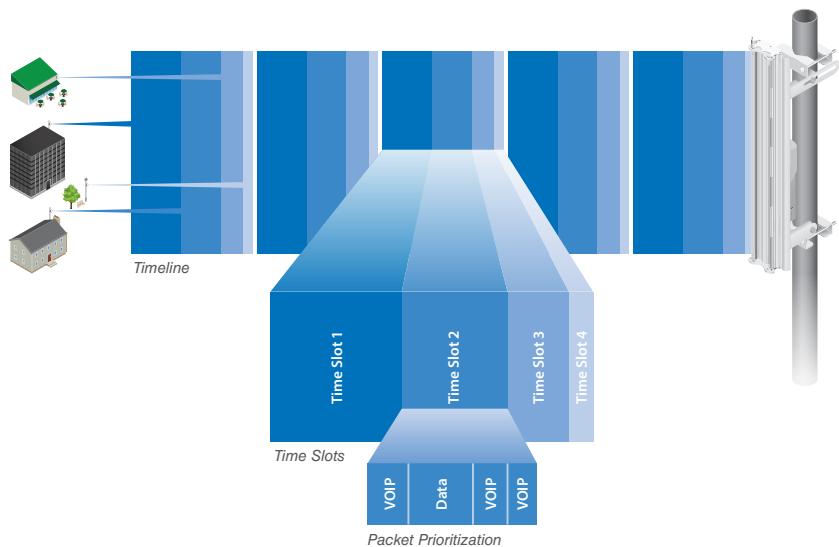
**Scalability** High capacity and scalability.

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

## Application Example



## airMAX TDMA Technology



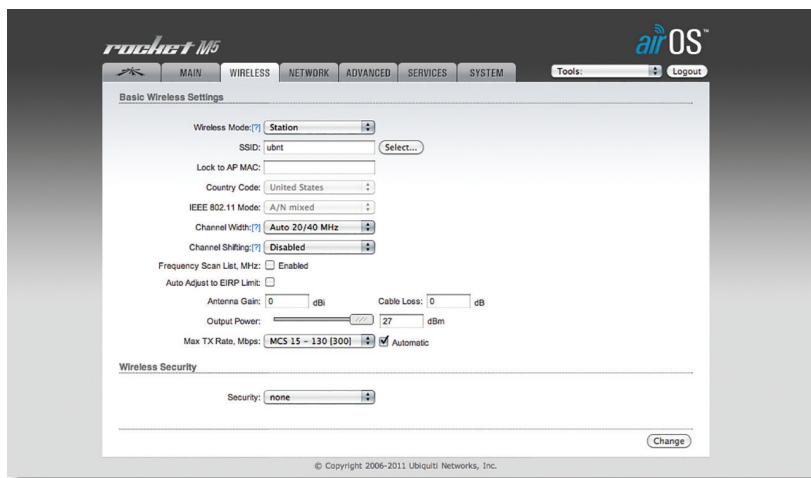
Up to 100 airMAX stations can be connected to an airMAX Sector; four airMAX stations are shown to illustrate the general concept.

# Software



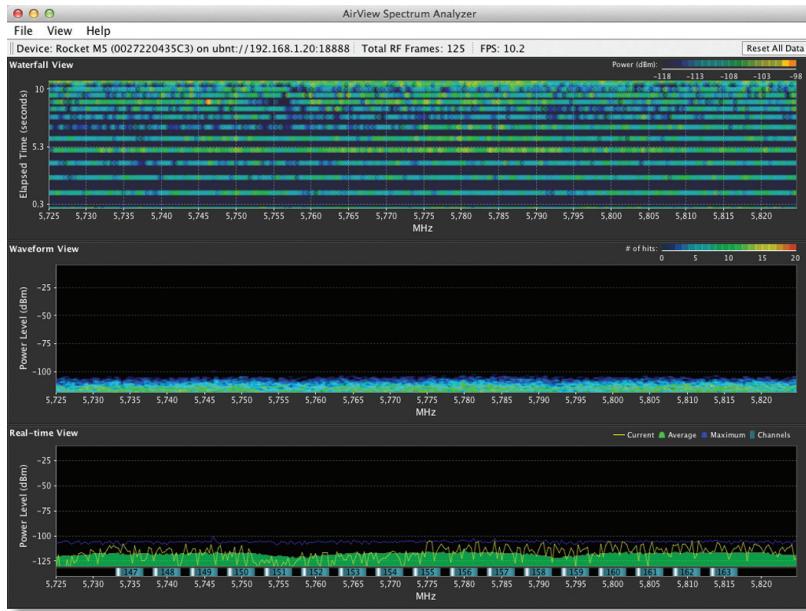
Built upon an intuitive user interface foundation, airOS® 5 is an advanced operating system for Ubiquiti airMAX M Series products.

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



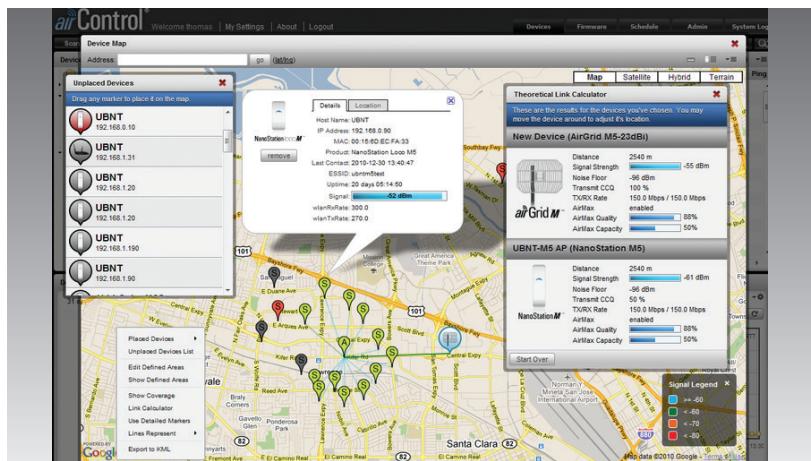
Integrated on all Ubiquiti M products, airView® provides advanced spectrum analyzer functionality: waterfall, waveform, and real-time spectral views allow operators to identify noise signatures and plan their networks to minimize noise interference.

- **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.



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.



## 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.



# Specifications

**rocket™ 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 USA: 5725 - 5850 MHz*			
Output Power			27 dBm			
TX Power Specifications				RX Power Specifications		
Modulation	Data Rate	Avg. TX	Tolerance	Modulation	Data Rate	Sensitivity
802.11a	6 - 24 Mbps	27 dBm	± 2 dB	802.11a	6 - 24 Mbps	-94 dBm Min.
	36 Mbps	25 dBm	± 2 dB		36 Mbps	-80 dBm
	48 Mbps	23 dBm	± 2 dB		48 Mbps	-77 dBm
	54 Mbps	22 dBm	± 2 dB		54 Mbps	-75 dBm
802.11n/airMAX	MCS0	27 dBm	± 2 dB	802.11n/airMAX	MCS0	-96 dBm
	MCS1	27 dBm	± 2 dB		MCS1	-95 dBm
	MCS2	27 dBm	± 2 dB		MCS2	-92 dBm
	MCS3	27 dBm	± 2 dB		MCS3	-90 dBm
	MCS4	26 dBm	± 2 dB		MCS4	-86 dBm
	MCS5	24 dBm	± 2 dB		MCS5	-83 dBm
	MCS6	22 dBm	± 2 dB		MCS6	-77 dBm
	MCS7	21 dBm	± 2 dB		MCS7	-74 dBm
	MCS8	27 dBm	± 2 dB		MCS8	-95 dBm
	MCS9	27 dBm	± 2 dB		MCS9	-93 dBm
	MCS10	27 dBm	± 2 dB		MCS10	-90 dBm
	MCS11	27 dBm	± 2 dB		MCS11	-87 dBm
	MCS12	26 dBm	± 2 dB		MCS12	-84 dBm
	MCS13	24 dBm	± 2 dB		MCS13	-79 dBm
	MCS14	22 dBm	± 2 dB		MCS14	-78 dBm
	MCS15	21 dBm	± 2 dB		MCS15	-75 dBm

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



5 GHz



27 dBm



10/100

# Specifications



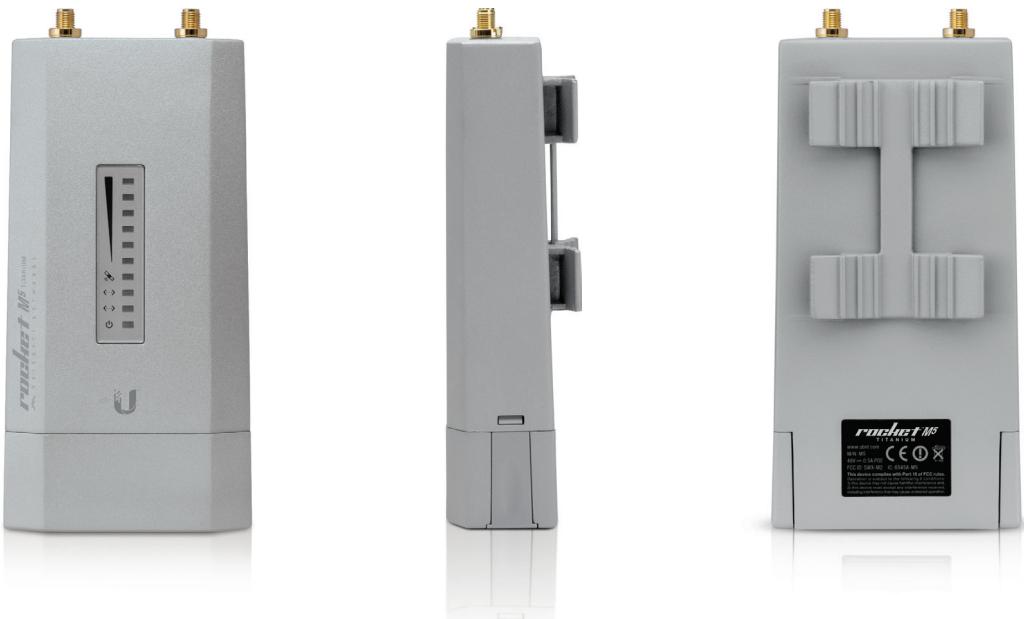
RM5-Ti Physical / Electrical / Environmental Information	
Dimensions	160 x 80 x 44 mm (6.30 x 3.15 x 1.73")
Weight	350 g (12.35 oz)
Enclosure Characteristics	Die-Cast Aluminum
Processor	MIPS 74Kc
Memory	128 MB SDRAM, 8 MB Flash
Networking Interface	(1) 10/100/1000 Mbps (1) 10/100 Mbps
RF Connections	(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 Power			27 dBm			
TX Power Specifications			RX Power Specifications			
Modulation	Data Rate	Avg. TX	Tolerance	Modulation	Data Rate	Sensitivity
802.11a	6 - 24 Mbps	27 dBm	± 2 dB	802.11a	6 - 24 Mbps	-94 dBm Min.
	36 Mbps	25 dBm	± 2 dB		36 Mbps	-80 dBm
	48 Mbps	23 dBm	± 2 dB		48 Mbps	-77 dBm
	54 Mbps	22 dBm	± 2 dB		54 Mbps	-75 dBm
802.11n/airMAX	MCS0	27 dBm	± 2 dB	802.11n/airMAX	MCS0	-96 dBm
	MCS1	27 dBm	± 2 dB		MCS1	-95 dBm
	MCS2	27 dBm	± 2 dB		MCS2	-92 dBm
	MCS3	27 dBm	± 2 dB		MCS3	-90 dBm
	MCS4	26 dBm	± 2 dB		MCS4	-86 dBm
	MCS5	24 dBm	± 2 dB		MCS5	-83 dBm
	MCS6	22 dBm	± 2 dB		MCS6	-77 dBm
	MCS7	21 dBm	± 2 dB		MCS7	-74 dBm
	MCS8	27 dBm	± 2 dB		MCS8	-95 dBm
	MCS9	27 dBm	± 2 dB		MCS9	-93 dBm
	MCS10	27 dBm	± 2 dB		MCS10	-90 dBm
	MCS11	27 dBm	± 2 dB		MCS11	-87 dBm
	MCS12	26 dBm	± 2 dB		MCS12	-84 dBm
	MCS13	24 dBm	± 2 dB		MCS13	-79 dBm
	MCS14	22 dBm	± 2 dB		MCS14	-78 dBm
	MCS15	21 dBm	± 2 dB		MCS15	-75 dBm

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



# Specifications

**rocket™ 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

M3/M365 Operating Frequency						
Operating Frequency						
M3		3370 - 3730 MHz*				
M365		3650 - 3675 MHz				
Output Power		25 dBm				
TX Power Specifications				RX Power Specifications		
Modulation	Data Rate	Avg. TX	Tolerance	Modulation	Data Rate	Sensitivity
airMAX	MCS0	25 dBm	± 2 dB	airMAX	MCS0	-94 dBm Min.
	MCS1	25 dBm	± 2 dB		MCS1	-93 dBm
	MCS2	25 dBm	± 2 dB		MCS2	-90 dBm
	MCS3	25 dBm	± 2 dB		MCS3	-89 dBm
	MCS4	24 dBm	± 2 dB		MCS4	-86 dBm
	MCS5	23 dBm	± 2 dB		MCS5	-83 dBm
	MCS6	22 dBm	± 2 dB		MCS6	-77 dBm
	MCS7	20 dBm	± 2 dB		MCS7	-74 dBm
	MCS8	25 dBm	± 2 dB		MCS8	-93 dBm
	MCS9	25 dBm	± 2 dB		MCS9	-91 dBm
	MCS10	25 dBm	± 2 dB		MCS10	-89 dBm
	MCS11	25 dBm	± 2 dB		MCS11	-87 dBm
	MCS12	24 dBm	± 2 dB		MCS12	-84 dBm
	MCS13	23 dBm	± 2 dB		MCS13	-79 dBm
	MCS14	22 dBm	± 2 dB		MCS14	-78 dBm
	MCS15	20 dBm	± 2 dB		MCS15	-75 dBm

\* RocketM3 not supported in the USA



3 GHz



3.65 GHz



25 dBm



10/100

# Specifications

**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 Frequency			2402 - 2462 MHz			
Output Power			28 dBm			
TX Power Specifications				RX Power Specifications		
Modulation	Data Rate	Avg. TX	Tolerance	Modulation	Data Rate	Sensitivity
802.11g	1 - 24 Mbps	28 dBm	± 2 dB	802.11g	1 - 24 Mbps	-97 dBm Min.
	36 Mbps	26 dBm	± 2 dB		36 Mbps	-80 dBm
	48 Mbps	25 dBm	± 2 dB		48 Mbps	-77 dBm
	54 Mbps	24 dBm	± 2 dB		54 Mbps	-75 dBm
802.11n/airMAX	MCS0	28 dBm	± 2 dB	802.11n/airMAX	MCS0	-96 dBm
	MCS1	28 dBm	± 2 dB		MCS1	-95 dBm
	MCS2	28 dBm	± 2 dB		MCS2	-92 dBm
	MCS3	28 dBm	± 2 dB		MCS3	-90 dBm
	MCS4	27 dBm	± 2 dB		MCS4	-86 dBm
	MCS5	25 dBm	± 2 dB		MCS5	-83 dBm
	MCS6	23 dBm	± 2 dB		MCS6	-77 dBm
	MCS7	22 dBm	± 2 dB		MCS7	-74 dBm
	MCS8	28 dBm	± 2 dB		MCS8	-95 dBm
	MCS9	28 dBm	± 2 dB		MCS9	-93 dBm
	MCS10	28 dBm	± 2 dB		MCS10	-90 dBm
	MCS11	28 dBm	± 2 dB		MCS11	-87 dBm
	MCS12	27 dBm	± 2 dB		MCS12	-84 dBm
	MCS13	25 dBm	± 2 dB		MCS13	-79 dBm
	MCS14	23 dBm	± 2 dB		MCS14	-78 dBm
	MCS15	22 dBm	± 2 dB		MCS15	-75 dBm



# Specifications

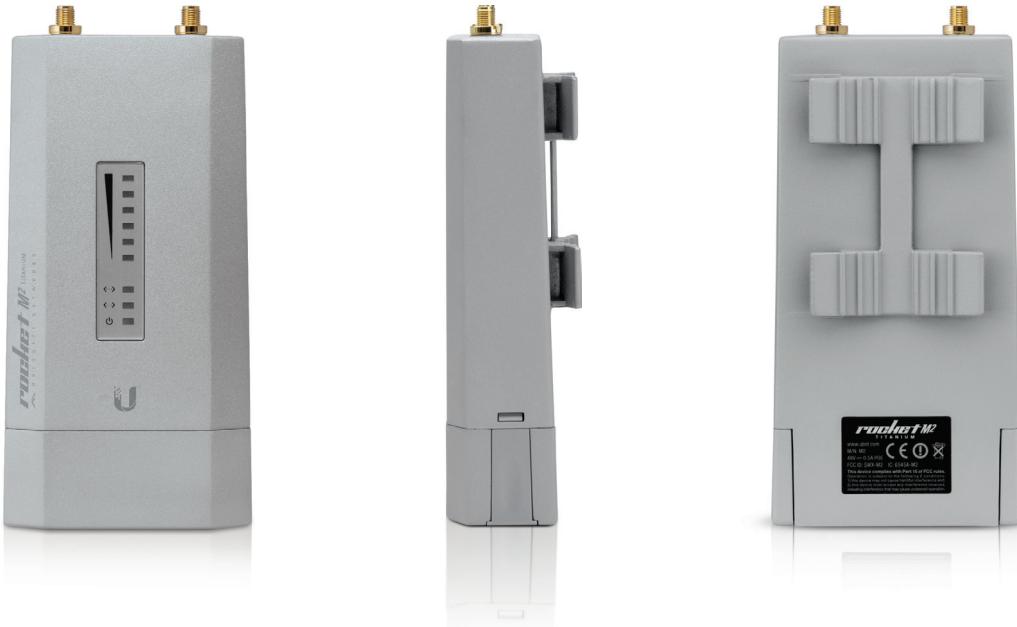


RM2-Ti Physical / Electrical / Environmental Information	
Dimensions	160 x 80 x 44 mm (6.30 x 3.15 x 1.73")
Weight	350 g (12.35 oz)
Enclosure Characteristics	Die-Cast Aluminum
Processor	MIPS 74Kc
Memory	128 MB SDRAM, 8 MB Flash
Networking Interface	(1) 10/100/1000 Mbps (1) 10/100 Mbps
RF Connections	(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 Operating Frequency						
Operating Frequency			2402 - 2462 MHz			
Output Power			28 dBm			
TX Power Specifications				RX Power Specifications		
Modulation	Data Rate	Avg. TX	Tolerance	Modulation	Data Rate	Sensitivity
802.11g	1 - 24 Mbps	28 dBm	± 2 dB	802.11g	1 - 24 Mbps	-97 dBm Min.
	36 Mbps	26 dBm	± 2 dB		36 Mbps	-80 dBm
	48 Mbps	25 dBm	± 2 dB		48 Mbps	-77 dBm
	54 Mbps	24 dBm	± 2 dB		54 Mbps	-75 dBm
802.11n/airMAX	MCS0	28 dBm	± 2 dB	802.11n/airMAX	MCS0	-96 dBm
	MCS1	28 dBm	± 2 dB		MCS1	-95 dBm
	MCS2	28 dBm	± 2 dB		MCS2	-92 dBm
	MCS3	28 dBm	± 2 dB		MCS3	-90 dBm
	MCS4	27 dBm	± 2 dB		MCS4	-86 dBm
	MCS5	25 dBm	± 2 dB		MCS5	-83 dBm
	MCS6	23 dBm	± 2 dB		MCS6	-77 dBm
	MCS7	22 dBm	± 2 dB		MCS7	-74 dBm
	MCS8	28 dBm	± 2 dB		MCS8	-95 dBm
	MCS9	28 dBm	± 2 dB		MCS9	-93 dBm
	MCS10	28 dBm	± 2 dB		MCS10	-90 dBm
	MCS11	28 dBm	± 2 dB		MCS11	-87 dBm
	MCS12	27 dBm	± 2 dB		MCS12	-84 dBm
	MCS13	25 dBm	± 2 dB		MCS13	-79 dBm
	MCS14	23 dBm	± 2 dB		MCS14	-78 dBm
	MCS15	22 dBm	± 2 dB		MCS15	-75 dBm



# Specifications

**rocket™ M9**

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 Operating Frequency						
Operating Frequency		902 - 928 MHz				
Output Power		28 dBm				
TX Power Specifications		RX Power Specifications				
Modulation	Data Rate	Avg. TX	Tolerance	Modulation	Data Rate	Sensitivity
airMAX	MCS0	28 dBm	± 2 dB	airMAX	MCS0	-96 dBm
	MCS1	28 dBm	± 2 dB		MCS1	-95 dBm
	MCS2	28 dBm	± 2 dB		MCS2	-92 dBm
	MCS3	28 dBm	± 2 dB		MCS3	-90 dBm
	MCS4	28 dBm	± 2 dB		MCS4	-86 dBm
	MCS5	24 dBm	± 2 dB		MCS5	-83 dBm
	MCS6	22 dBm	± 2 dB		MCS6	-77 dBm
	MCS7	21 dBm	± 2 dB		MCS7	-74 dBm
	MCS8	28 dBm	± 2 dB		MCS8	-95 dBm
	MCS9	28 dBm	± 2 dB		MCS9	-93 dBm
	MCS10	28 dBm	± 2 dB		MCS10	-90 dBm
	MCS11	28 dBm	± 2 dB		MCS11	-87 dBm
	MCS12	28 dBm	± 2 dB		MCS12	-84 dBm
	MCS13	24 dBm	± 2 dB		MCS13	-79 dBm
	MCS14	22 dBm	± 2 dB		MCS14	-78 dBm
	MCS15	21 dBm	± 2 dB		MCS15	-75 dBm



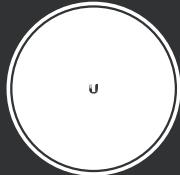
# Antenna Compatibility



RocketM9

RocketM2  
RocketM2-TiRocketM3  
RocketM365RocketM5  
RocketM5-Ti

Frequency Band

	900 MHz	2.4 GHz	3/3.65 GHz	5 GHz
 Sector		AM-9M13	AM-V2G-Ti AM-2G15-120 AM-2G16-90	AM-V5G-Ti AM-M-V5G-Ti AM-5G16-120 AM-5G17-90 AM-5G19-120 AM-5G20-90 AM-5AC21-60 AM-5AC22-45
			RD-2G24	RD-5G31-AC RD-5G30 RD-5G34
	AMY-9M16			