



Rocket M Go MESH

LEADING EDGE INDUSTRIAL DESIGN

Rocket M is a hi-power, very linear 2x2 MIMO radio with enhanced receiver performance. It features incredible range performance (50+km) and breakthrough speed (150+Mbps real TCP/IP). The rocket M is designed with sleek and elegant form-factors. The low cost, hi-performance, and small form factor of Rocket M makes them extremely versatile and ideal in different applications. Latency remains low for voice and video applications as network scales.



Rocket M2, Rocket M5

POWERFUL MESH FEATURES

Run on OpenWRT, LAviNet mesh software is a highly developed technology. It is very intuitive and easy to operate, which features in:

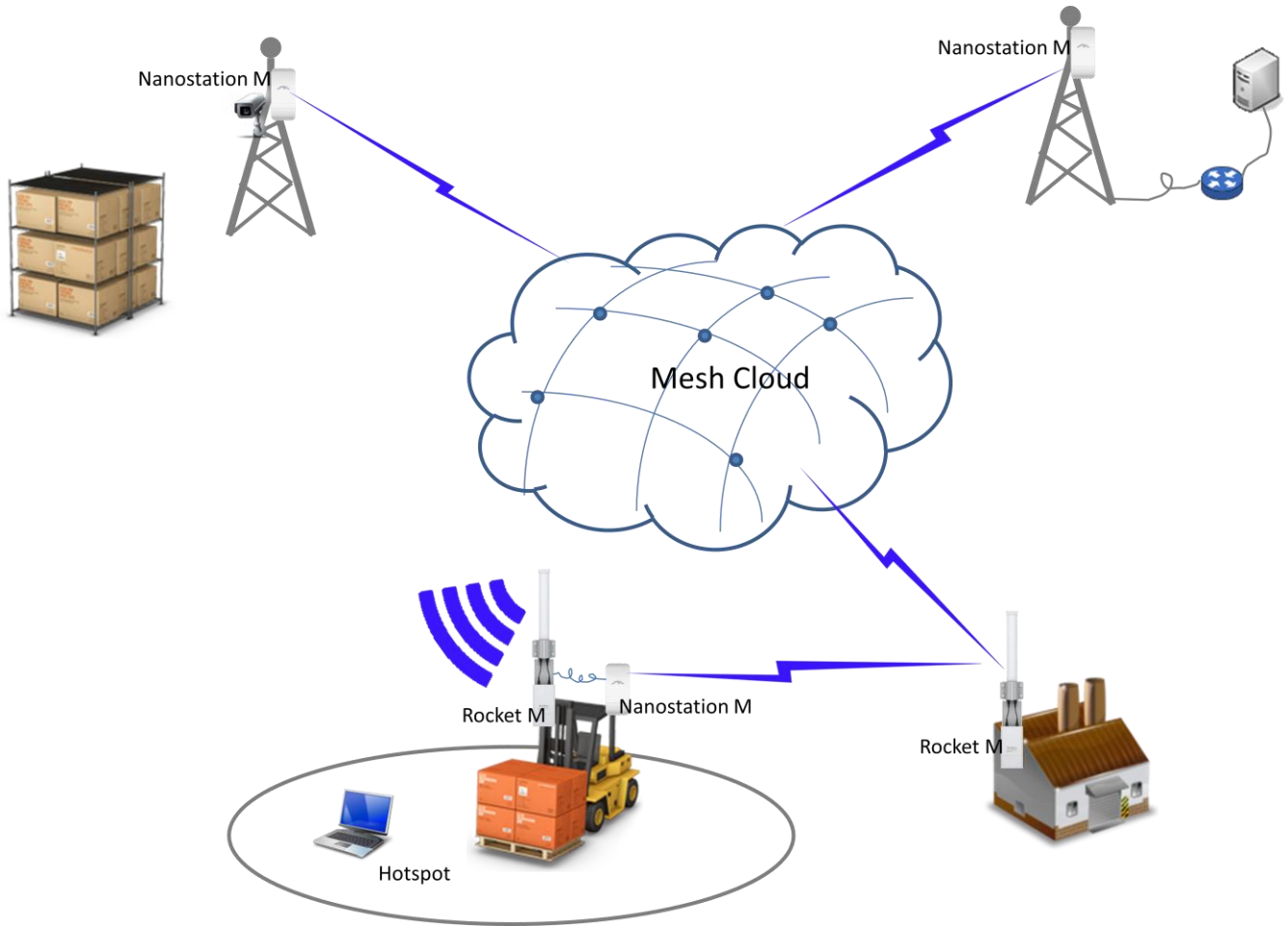
- Self configuration, self adjustment, self healing
- Intelligent routing and channel assignment
- Proactive and dynamic best path selection
- 24 BSSIDs and VLANs
- Distributed or centralized optimization operation modes

- IEEE 802.11i support (AES, WEP, WPA, WPA2, WPA2 enterprise)
- Service protection – a mesh node without uplink will be prevented from client association
- A web-based control panel that support local or remote configuring/control/upgrading its firmware
- With external antennas, Rocket M can achieve mesh node mobility at speed of 40km/h

PRODUCT SPECIFICATIONS SUMMARY

System Information		
Processor Specs	Atheros MIPS 24KC, 400MHz	
Memory Information	64MB SDRAM, 8MB Flash	
Networking Interface	1 X 10/100 BASE-TX (Cat. 5, RJ-45) Ethernet	
Regulation / Compliance Information		
Wireless Approvals	FCC Part 15.247, IC RS210, CE	
RoHS Compliance	Yes	
Physical / Electrical / Environmental / Antenna		
Enclosure Characteristics	Outdoor UV Stabilized Plastic	
Mounting Kit	Pole Mounting Kit included	
Power Method	Passive Power over Ethernet (pairs 4, 5+; 7, 8 return)	
Operating Temperature	-30C to 75C	
Operating Humidity	5 to 95% Condensing	
Shock and Vibration	ETSI300-019-1.4	
Dimensions	17 x 8 x 3cm	
Weight	0.5 kg	
Power Supply (included)	24V, 1A POE	
RF Connector	2x RP-SMA (Waterproof)	
	M2	M5
Radio Frequency (MHz)	2412-2462	5470-5825
Output power	28 dbm	27 dbm
Max Power Consumption	6.5 Watts	8 Watts

TYPICAL USAGE





SPECIFICATIONS (CONT.) – ROCKET M

(FROM: UBIQUITI NETWORKS, INC.)

Rocket M2 - Operating Frequency 2412-2462 MHz							
2.4 GHz TX POWER SPECIFICATIONS				2.4 GHz RX POWER SPECIFICATIONS			
	DataRate	Avg. TX	Tolerance		DataRate	Avg. TX	Tolerance
11g	1-24 Mbps	28 dBm	+/- 2 dB	11g	1-24 Mbps	-97 dBm min	+/- 2 dB
	36 Mbps	26 dBm	+/- 2 dB		36 Mbps	-80 dBm	+/- 2 dB
	48 Mbps	25 dBm	+/- 2 dB		48 Mbps	-77 dBm	+/- 2 dB
	54 Mbps	24 dBm	+/- 2 dB		54 Mbps	-75 dBm	+/- 2 dB
11n	MCS0	28 dBm	+/- 2 dB	11n	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	23 dBm	+/- 2 dB		MCS6	-77 dBm	+/- 2 dB
	MCS7	22 dBm	+/- 2 dB		MCS7	-74 dBm	+/- 2 dB
	MCS8	28 dBm	+/- 2 dB		MCS8	-95 dBm	+/- 2 dB
	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	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		

Rocket M5 - Operating Frequency 5470-5825 MHz							
5 GHz TX POWER SPECIFICATIONS				5 GHz RX POWER SPECIFICATIONS			
	DataRate	Avg. TX	Tolerance		DataRate	Avg. TX	Tolerance
11a	6-24 Mbps	27 dBm	+/- 2 dB	11a	6-24 Mbps	-94 dBm min	+/- 2 dB
	36 Mbps	25 dBm	+/- 2 dB		36 Mbps	-80 dBm	+/- 2 dB
	48 Mbps	23 dBm	+/- 2 dB		48 Mbps	-77 dBm	+/- 2 dB
	54 Mbps	22 dBm	+/- 2 dB		54 Mbps	-75 dBm	+/- 2 dB
11n	MCS0	27 dBm	+/- 2 dB	11n	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
	MCS6	22 dBm	+/- 2 dB		MCS6	-77 dBm	+/- 2 dB
	MCS7	21 dBm	+/- 2 dB		MCS7	-74 dBm	+/- 2 dB
	MCS8	27 dBm	+/- 2 dB		MCS8	-95 dBm	+/- 2 dB
	MCS9	27 dBm	+/- 2 dB		MCS9	-93 dBm	+/- 2 dB
	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		