UBIQUITI NETWORKS

TECHNICAL SPECS / DATASHEET

NanoStation M2: 2.4GHz Hi Power 2x2 MIMO AirMax TDMA Station

The Most Powerful NanoStation Ever.

airMAX
MIMO TDMA Protocol

SYSTEM INFORMATION	
Processor Specs	Atheros MIPS 24KC, 400MHz
Memory Information	32MB SDRAM, 8MB Flash
Networking Interface	2 X 10/100 BASE-TX (Cat. 5, RJ-45) Ethernet Interface

REGULATORY / COMPLIANCE INFORMATION	
Wireless Approvals	FCC Part 15.247, IC RS210, CE
RoHS Compliance	YES

OPERATING FREQUENCY 2412MHz-2462MHz

TX POWER SPECIFICATIONS

	DataRate	Avg. TX	Tolerance
11b/g	1-24Mbps	28 dBm	+/-2dB
	36Mbps	26 dBm	+/-2dB
	48Mbps	25 dBm	+/-2dB
	54Mbps	24 dBm	+/-2dB
11n / Airmax	MCS0	28 dBm	+/-2dB
	MCS1	28 dBm	+/-2dB
	MCS2	28 dBm	+/-2dB
	MCS3	28 dBm	+/-2dB
	MCS4	27 dBm	+/-2dB
	MCS5	25 dBm	+/-2dB
	MCS6	23 dBm	+/-2dB
	MCS7	22 dBm	+/-2dB
	MCS8	28 dBm	+/-2dB
	MCS9	28 dBm	+/-2dB
	MCS10	28 dBm	+/-2dB
	MCS11	28 dBm	+/-2dB
	MCS12	27 dBm	+/-2dB
	MCS13	25 dBm	+/-2dB
	MCS14	23 dBm	+/-2dB
	MCS15	22 dBm	+/-2dB

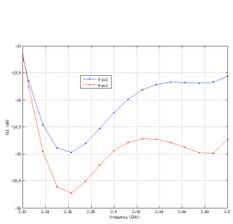
RX SPECIFICATIONS

	DataRate	Sensitivity	Tolerance
11b/g	1-24Mbps	-97 dBm min	+/-2dB
	36Mbps	-80 dBm	+/-2dB
	48Mbps	-77 dBm	+/-2dB
	54Mbps	-75 dBm	+/-2dB
11n / Airmax	MCS0	-96 dBm	+/-2dB
	MCS1	-95 dBm	+/-2dB
	MCS2	-92 dBm	+/-2dB
	MCS3	-90 dBm	+/-2dB
	MCS4	-86 dBm	+/-2dB
	MCS5	-83 dBm	+/-2dB
	MCS6	-77 dBm	+/-2dB
	MCS7	-74 dBm	+/-2dB
	MCS8	-95 dBm	+/-2dB
	MCS9	-93 dBm	+/-2dB
	MCS10	-90 dBm	+/-2dB
	MCS11	-87 dBm	+/-2dB
	MCS12	-84 dBm	+/-2dB
	MCS13	-79 dBm	+/-2dB
	MCS14	-78 dBm	+/-2dB
	MCS15	-75 dBm	+/-2dB

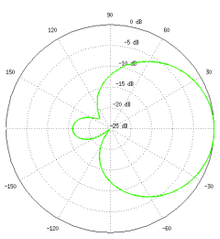
PHYSICAL / ELECTRICAL / ENVIRONMENTAL	
Enclosure Size	29.4 cm x 8 cm x 3cm
Weight	0.4kg
Enclosure Characteristics	Outdoor UV Stabalized Plastic
Mounting Kit	Pole Mounting Kit included
Max Power Consumption	8 Watts
Power Supply	24V, 0.5A surge portection integrated POE adapter included
Power Method	Passive Power over Ethernet (pairs 4,5+; 7,8 return)
Operating Temperature	-30C to +80C
Operating Humidity	5 to 95% Condensing
Shock and Vibration	ETSI300-019-1.4

INTEGRATED 2x2 MIMO ANTENNA

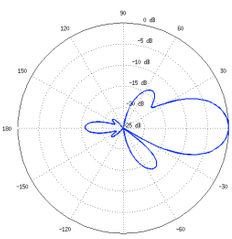
Frequency Range	2.32-2.55 GHz	Max VSWR	1.6:1
Gain	10.4-11.2 dBi	H-pol Beamwidth	55 deg.
Polarization	Dual Linear	V-pol Beamwidth	53 deg.
Cross-pol Isolation	23dB minimum	Elevation Beamwidth	27 deg.



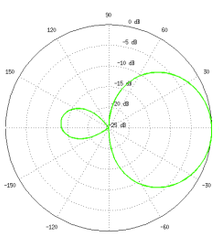
VSWR



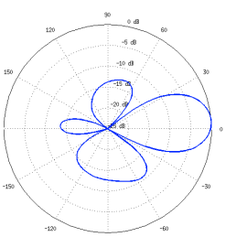
H-Pol Azimuth



H-Pol Elevation



V-Pol Azimuth



V-Pol Elevation