UBIQUITI NETWORKS

TECHNICAL SPECS / DATASHEET

NanoStation Loco M5: Compact and cost-effective AirMax 5GHz CPE

airMAX
MIMO TDMA Protocol

SYSTEM INFORMATION	
Processor Specs	Atheros MIPS 24KC, 400MHz
Memory Information	32MB SDRAM, 8MB Flash
Networking Interface	1 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 5470MHz-5825MHz

5GHz TX POWER SPECIFICATIONS

	DataRate	Avg. TX	Tolerance
11a	1-24Mbps	23 dBm	+/-2dB
	36Mbps	21 dBm	+/-2dB
	48Mbps	19 dBm	+/-2dB
	54Mbps	18 dBm	+/-2dB
5GHz 11n / AirMax	MCS0	23 dBm	+/-2dB
	MCS1	23 dBm	+/-2dB
	MCS2	23 dBm	+/-2dB
	MCS3	23 dBm	+/-2dB
	MCS4	22 dBm	+/-2dB
	MCS5	20 dBm	+/-2dB
	MCS6	18 dBm	+/-2dB
	MCS7	17 dBm	+/-2dB
	MCS8	23 dBm	+/-2dB
	MCS9	23 dBm	+/-2dB
	MCS10	23 dBm	+/-2dB
	MCS11	23 dBm	+/-2dB
	MCS12	22 dBm	+/-2dB
	MCS13	20 dBm	+/-2dB
	MCS14	18 dBm	+/-2dB
	MCS15	17 dBm	+/-2dB

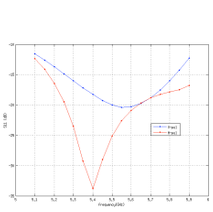
5GHz RX SPECIFICATIONS

	DataRate	Sensitivity	Tolerance
11a	24Mbps	-83 dBm	+/-2dB
	36Mbps	-80 dBm	+/-2dB
	48Mbps	-77 dBm	+/-2dB
	54Mbps	-75 dBm	+/-2dB
5GHz 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

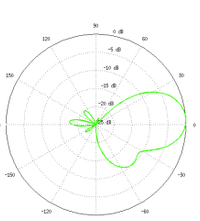
PHYSICAL / ELECTRICAL / ENVIRONMENTAL	
Enclosure Size	163 x 31 x80
Weight	0.18kg
Enclosure Characteristics	Outdoor UV Stabalized Plastic
Mounting Kit	Pole Mounting Kit included
Max Power Consumption	5.5 Watts
Power Supply	24V, 0.5A surge portection integrated POE adapter included
Power Method	Passive 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

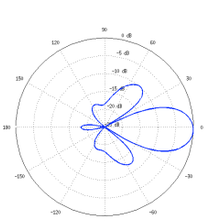
Frequency Range	4.9-6.0 GHz	Max VSWR	1.4:1
Gain	13 dBi	H-pol Beamwidth	45 deg.
Polarization	Dual Linear	V-pol Beamwidth	45 deg.
Cross-pol Isolation	20dB minimum	Elevation Beamwidth	45 deg.



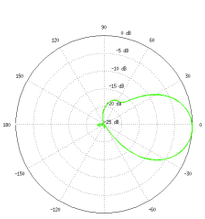
VSWR



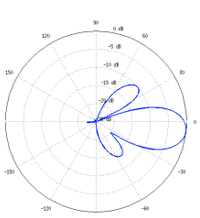
H-Pol Azimuth



H-Pol Elevation



V-Pol Azimuth



V-Pol Elevation