

NanoStation M900 Loco: Compact 900MHz 2x2 MIMO AirMax TDMA Station



BREAKTHROUGH 900MHz PERFORMANCE
20Mbps+ Real TCP/IP Throughput in 5MHz Channel



MIMO TDMA Protocol

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 Interface

REGULATORY / COMPLIANCE INFORMATION

Wireless Approvals	FCC Part 15.247, IC RS210
RoHS Compliance	YES

OPERATING FREQUENCY 902-928 MHz

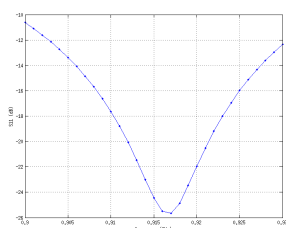
airMAX	902-928 MHz			airMAX	902-928 MHz		
	MCS	Power	Gain		MCS	Power	Gain
	MCS0	28 dBm	+/-2dB		MCS0	-96 dBm	+/-2dB
	MCS1	28 dBm	+/-2dB		MCS1	-95 dBm	+/-2dB
	MCS2	28 dBm	+/-2dB		MCS2	-92 dBm	+/-2dB
	MCS3	28 dBm	+/-2dB		MCS3	-90 dBm	+/-2dB
	MCS4	28 dBm	+/-2dB		MCS4	-86 dBm	+/-2dB
	MCS5	24 dBm	+/-2dB		MCS5	-83 dBm	+/-2dB
	MCS6	22 dBm	+/-2dB		MCS6	-77 dBm	+/-2dB
	MCS7	21 dBm	+/-2dB		MCS7	-74 dBm	+/-2dB
	MCS8	28 dBm	+/-2dB		MCS8	-95 dBm	+/-2dB
	MCS9	28 dBm	+/-2dB		MCS9	-93 dBm	+/-2dB
	MCS10	28 dBm	+/-2dB		MCS10	-90 dBm	+/-2dB
	MCS11	28 dBm	+/-2dB		MCS11	-87 dBm	+/-2dB
	MCS12	28 dBm	+/-2dB		MCS12	-84 dBm	+/-2dB
	MCS13	24 dBm	+/-2dB		MCS13	-79 dBm	+/-2dB
	MCS14	22 dBm	+/-2dB		MCS14	-78 dBm	+/-2dB
	MCS15	21 dBm	+/-2dB		MCS15	-75 dBm	+/-2dB

PHYSICAL / ELECTRICAL / ENVIRONMENTAL

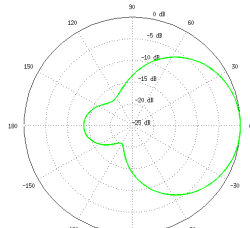
Enclosure Size	164mm length x 199mm width x 72mm height
Weight	0.9 kg
RF Connector	External SMA
Enclosure Characteristics	Outdoor UV Stabilized Plastic
Mounting Kit	Pole Mounting Kit included
Max Power Consumption	6.5 Watts
Power Supply	24V, 1A POE Supply Included
Power Method	Passive Power over Ethernet (pairs 4,5+; 7,8 return)
Operating Temperature	-30C to 75C
Operating Humidity	5 to 95% Condensing
Shock and Vibration	ETSI300-019-1.4

INTEGRATED 2x2 MIMO ANTENNA (There is also an external RP-SMA connector for external higher gain antenna)

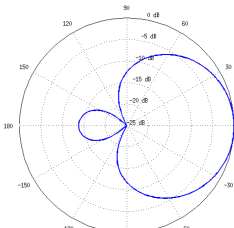
Frequency Range	902-928MHz	Max VSWR	1.3:1
Gain	7.5 dBi	H-pol Beamwidth	60 deg.
Polarization	Dual Linear	V-pol Beamwidth	60 deg.
Cross-pol Isolation	28dB minimum	Elevation Beamwidth	60 deg.



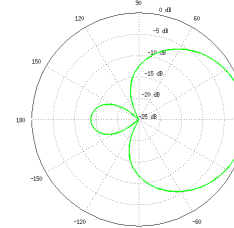
VSWR



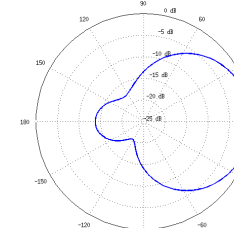
H-Pol Azimuth



H-Pol Elevation



V-Pol Azimuth



V-Pol Elevation