



NanoStation loco

NS5L DATASHEET



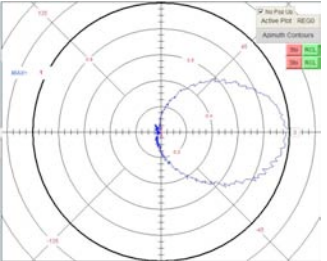
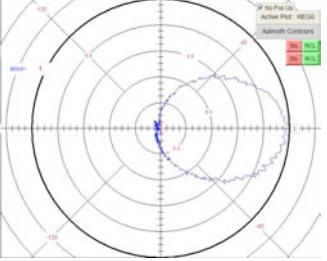
SYSTEM INFORMATION	
Processor Specs	Atheros SOC, MIPS 4KC, 180MHz
Memory Information	16MB SDRAM, 4MB Flash
Networking Interface	10/100 BASE-TX (Cat. 5, RJ-45) Ethernet Interface

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

RADIO OPERATING FREQUENCY 5.475-5.825GHz							
TX SPECIFICATIONS				RX SPECIFICATIONS			
802.11a OFDM	DataRate	Avg. Power	Tolerance	802.11a OFDM	DataRate	Sensitivity	Tolerance
	6Mbps	22 dBm	+/-1.5dB		6Mbps	-94 dBm	+/-1.5dB
	9Mbps	22 dBm	+/-1.5dB		9Mbps	-93 dBm	+/-1.5dB
	12Mbps	22 dBm	+/-1.5dB		12Mbps	-91 dBm	+/-1.5dB
	18Mbps	22 dBm	+/-1.5dB		18Mbps	-90 dBm	+/-1.5dB
	24Mbps	22 dBm	+/-1.5dB		24Mbps	-86 dBm	+/-1.5dB
	36Mbps	20 dBm	+/-1.5dB		36Mbps	-83 dBm	+/-1.5dB
	48Mbps	19 dBm	+/-1.5dB		48Mbps	-77 dBm	+/-1.5dB
54Mbps	17 dBm	+/-1.5dB	54Mbps	-74 dBm	+/-1.5dB		

ADJUSTABLE CHANNEL SIZE SUPPORT			
5MHz	10MHz	20MHz	40MHz

RANGE PERFORMANCE	
Outdoor (BaseStation Antenna Dependent):	Over 5km

ANTENNA			
Gain	13dBi	Survival Wind	185km/hr
Polarization	Multi-Polarized	VSWR	1.4:1
Polarization Selection	Software Controlled	Front to Back Ratio	30dB+
3dB Beamwidth Azimuth	45 degrees	3dB Beamwidth Elevation	45 degrees
Azimuth		Elevation	

PHYSICAL / ELECTRICAL / ENVIRONMENTAL	
Enclosure Size	16.3 cm. length x 3.1 cm. height x 8cm. width
Weight	0.18kg
Enclosure Characteristics	Outdoor UV Stabilized Plastic
Mounting Kit	Pole Mounting Kit included
Max Power Consumption	5 Watts
Power Supply	12V, 1A (12 Watts). Supply and injector included
Power Method	Passive Power over Ethernet (pairs 4,5+; 7,8 return)
Operating Temperature	-20C to +70C
Operating Humidity	5 to 95% Condensing
Shock and Vibration	ETSI300-019-1.4

SOFTWARE



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