



# 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		
	DataRate	Avg.Power	Tolerance	
802.11a OFDM	6Mbps	22 dBm	+/-1.5dB	
	9Mbps	22 dBm	+/-1.5dB	
	12Mbps	22 dBm	+/-1.5dB	
	18Mbps	22 dBm	+/-1.5dB	
	24Mbps	22 dBm	+/-1.5dB	
	36Mbps	20 dBm	+/-1.5dB	
	48Mbps	19 dBm	+/-1.5dB	
	54Mbps	17 dBm	+/-1.5dB	
	DataRate	Sensitivity	Tolerance	
802.11a OFDM	6Mbps	-93 dBm	+/-1.5dB	
	9Mbps	-92 dBm	+/-1.5dB	
	12Mbps	-90 dBm	+/-1.5dB	
	18Mbps	-89 dBm	+/-1.5dB	
	24Mbps	-87 dBm	+/-1.5dB	
	36Mbps	-82 dBm	+/-1.5dB	
	48Mbps	-76 dBm	+/-1.5dB	
	54Mbps	-73 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				
visit <a href="http://www.ubnt.com/airos">www.ubnt.com/airos</a>				

