



NanoStation5

Datasheet



SYSTEM INFORMATION							
Processor Specs		Atheros AR2313 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		DataRate	Sensitivity	Tolerance
802.11a OFDM	6Mbps	24 dBm	+/-1.5dB	802.11a OFDM	6Mbps	-94 dBm	+/-1.5dB
	9Mbps	24 dBm	+/-1.5dB		9Mbps	-93 dBm	+/-1.5dB
	12Mbps	24 dBm	+/-1.5dB		12Mbps	-91 dBm	+/-1.5dB
	18Mbps	24 dBm	+/-1.5dB		18Mbps	-90 dBm	+/-1.5dB
	24Mbps	26 dBm	+/-1.5dB		24Mbps	-86 dBm	+/-1.5dB
	36Mbps	22 dBm	+/-1.5dB		36Mbps	-83 dBm	+/-1.5dB
	48Mbps	21 dBm	+/-1.5dB		48Mbps	-77 dBm	+/-1.5dB
	54Mbps	19 dBm	+/-1.5dB		54Mbps	-74 dBm	+/-1.5dB
ADJUSTABLE CHANNEL SIZE SUPPORT							
5MHz		10MHz		20MHz		40MHz	
RANGE PERFORMANCE							
Outdoor (BaseStation Antenna Dependent):			Over 10km				
INTEGRATED ADAPTIVE ANTENNA POLARITY + EXTERNAL ANTENNA SUPPORT (4 OPTIONS TOTAL)							
Gain		14dBi		External Connector		SMA	
Polarization		Multi-Polarized		VSWR		1.4: 1	
Polarization Selection		Software Controlled		Front to Back Ratio		30dB+	
3dB Beamwidth Azimuth		55 degrees		3dB Beamwidth Elevation		18 degrees	
Azimuth				Elevation			
PHYSICAL / ELECTRICAL / ENVIRONMENTAL							
Enclosure Size		26.4 cm x 8 cm x 3cm					
Weight		0.4kg					
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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Package Contents

