



# NanoStation5

## Datasheet



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### 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

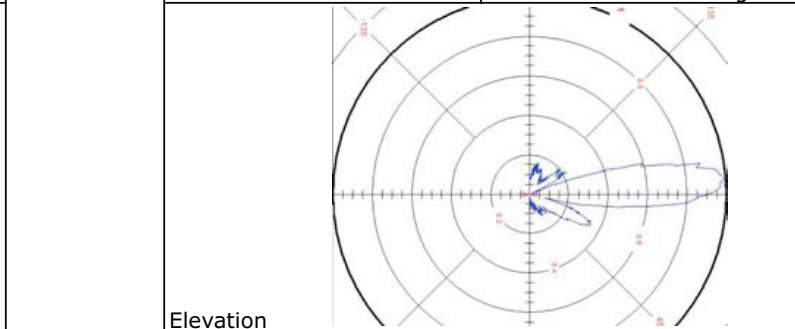
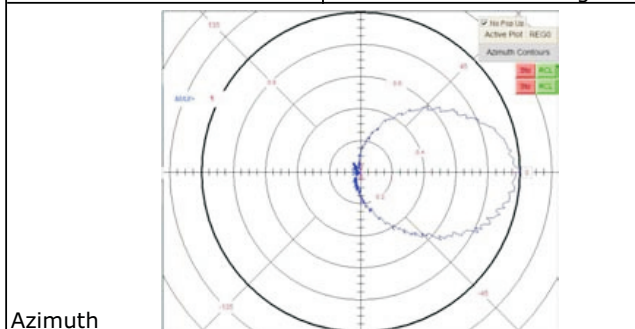
5MHz	10MHz	20MHz	40MHz
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### RANGE PERFORMANCE

Outdoor (BaseStation Antenna Dependent):	Over 10km
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### 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



### 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

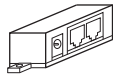
## Package Contents



NanoStation  
1 (Qty.)



Plastic Straps  
2 (Qty.)



PoE Injector  
1 (Qty.)



AC Adapter  
1 (Qty.)

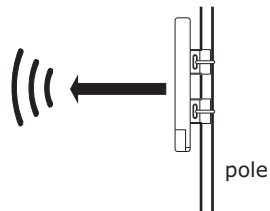


External Status LEDs

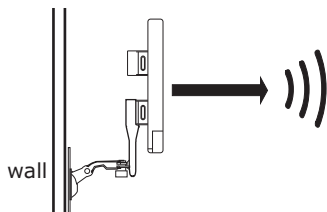
Multiple Mounting  
Options

## Mounting Options

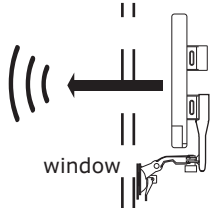
### 1. Pole Mount (Standard)



### 2. Wall Mount (optional)



### 3. Window Suction Mount (optional)



Integrated 14dBi  
dual polarity antenna

Reset

Ethernet Connection

External Antenna  
SMA Connector  
(optional)

Waterproof  
Sliding Door