

# 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	24 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			
Polarization				Multi-Polarized			
Polarization Selection				Software Controlled			
3dB Beamwidth Azimuth				55 degrees			
External Connector				RP-SMA			
VSWR				1.4:1			
Front to Back Ratio				30dB+			
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							

## Package Contents



NanoStation  
1 (Qty.)



Plastic Straps  
2 (Qty.)



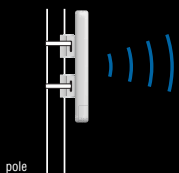
PoE Injector  
1 (Qty.)



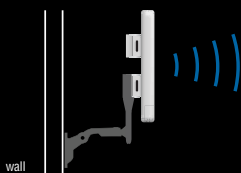
AC Adapter  
1 (Qty.)

## Mounting Options

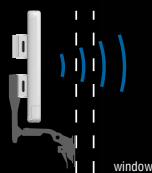
1. Pole Mount (Standard)



2. Wall Mount (optional)



3. Window Mount (optional)



External Status LEDs

Multiple Mounting  
Options



Integrated 14dBi  
dual polarity antenna

Reset

Ethernet Connection

External Antenna  
RP-SMA Connector  
(optional)

Waterproof  
Sliding Door

CPU	Atheros 180MHz MIPS
RAM	16MB RAM
Flash	4MB FLASH
Wireless	5GHz, 802.11a
Channel width	5/10/20/40MHz
Antenna Gain	14dBi x2
Polarity	Adaptive Vertical/Horizontal
Ext. Ant. Option	Yes, RP-SMA Connector
Range	10km+ (100km using ext ant.)
Throughput	25Mbps+ TCP/IP
Mounting	Pole Mount (straps included)
Accessories	Ubiquiti Window/Wall Mount (sold seperately)
Size	26.4cm x 8cm x 3cm
Weight	0.4 kg
Power Supply	12V, 1A POE (included)
Approvals	FCC 15.247, IC, CE

# Air OS™

AAP  
TECHNOLOGY

Air OS is an intuitive, versatile, highly developed Ubiquiti firmware technology that is included with NanoStation.

It is exceptionally intuitive and was designed to require no training to operate. Behind the user interface is a powerful firmware architecture which enables hi-performance outdoor multipoint networking.

NanoStation utilizes Adaptive Antenna Polarity technology, which can statically or dynamically software switch antenna polarities to optimize your connections.

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