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

	DataRate	Avg.Power	Tolerance
802.11a OFDM	6Mbps	24 dBm	+/-1.5dB
	9Mbps	24 dBm	+/-1.5dB
	12Mbps	24 dBm	+/-1.5dB
	18Mbps	24 dBm	+/-1.5dB
	24Mbps	24 dBm	+/-1.5dB
	36Mbps	22 dBm	+/-1.5dB
	48Mbps	21 dBm	+/-1.5dB
	54Mbps	19 dBm	+/-1.5dB

RX SPECIFICATIONS

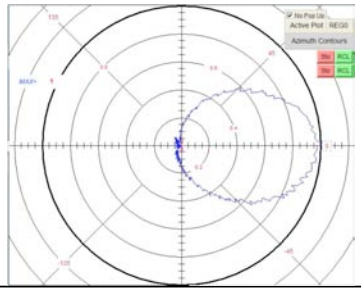
	DataRate	Sensitivity	Tolerance
802.11a OFDM	6Mbps	-94 dBm	+/-1.5dB
	9Mbps	-93 dBm	+/-1.5dB
	12Mbps	-91 dBm	+/-1.5dB
	18Mbps	-90 dBm	+/-1.5dB
	24Mbps	-86 dBm	+/-1.5dB
	36Mbps	-83 dBm	+/-1.5dB
	48Mbps	-77 dBm	+/-1.5dB
	54Mbps	-74 dBm	+/-1.5dB

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

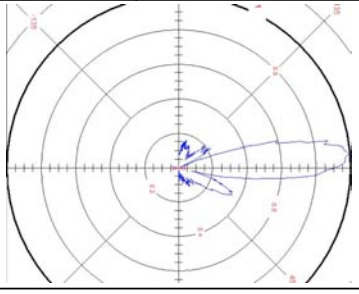
RANGE PERFORMANCE	
Outdoor (BaseStation Antenna Dependent):	Over 10km

INTEGRATED ADAPTIVE ANTENNA POLARITY + EXTERNAL ANTENNA SUPPORT (4 OPTIONS TOTAL)

Gain	14dBi	External Connector	RP-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 Stabalized 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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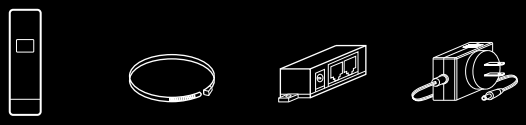
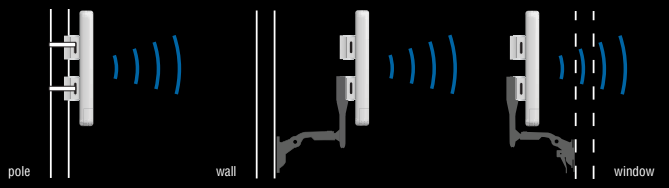
Package Contents

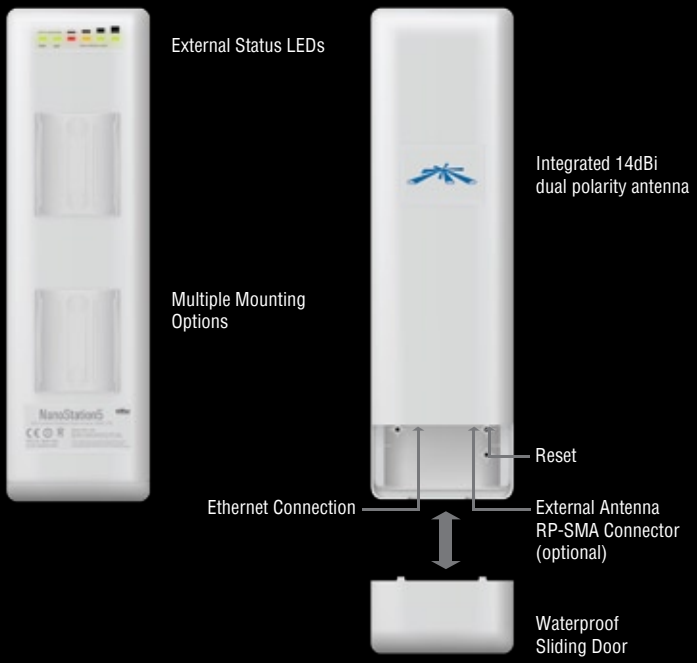


NanoStation 1 (Qty.)
Plastic Straps 2 (Qty.)
PoE Injector 1 (Qty.)
AC Adapter 1 (Qty.)

Mounting Options

1. Pole Mount (Standard)
2. Wall Mount (optional)
3. Window Mount (optional)





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

AirOS™ by Ubiquiti Networks

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.

AAP TECHNOLOGY

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

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