



USER INSTRUCTIONS



1. Launch web browser and type 192.168.1.20 to access NanoStation
2. Enter "UBNT" for both username and password

TECH SPECS

SYSTEM INFORMATION							
Processor Specs	Atheros MIPS 24KC, 400MHz						
Memory Information	64MB SDRAM, 8MB Flash						
Networking Interface	1 X 10/100 BASE-TX (Cat. 5, RJ-45) Ethernet Interface						
REGULATORY / COMPLIANCE INFORMATION							
Wireless Approvals	FCC Part 15.247, IC RS210, CE						
RoHS Compliance	YES						
OPERATING FREQUENCY 2412MHz-2462MHz							
2.4GHz TX POWER SPECIFICATIONS			2.4GHz RX SPECIFICATIONS				
	DataRate	Avg. TX	Tolerance		DataRate	Sensitivity	Tolerance
11a	1-24Mbps	28 dBm	+/-2dB	11a	24Mbps	-83 dBm	+/-2dB
	36Mbps	25 dBm	+/-2dB		36Mbps	-80 dBm	+/-2dB
	48Mbps	23 dBm	+/-2dB		48Mbps	-77 dBm	+/-2dB
	54Mbps	22 dBm	+/-2dB		54Mbps	-75 dBm	+/-2dB
5GHz 11n	MCS0	27 dBm	+/-2dB	5GHz 11n	MCS0	-96 dBm	+/-2dB
	MCS1	27 dBm	+/-2dB		MCS1	-95 dBm	+/-2dB
	MCS2	27 dBm	+/-2dB		MCS2	-92 dBm	+/-2dB
	MCS3	27 dBm	+/-2dB		MCS3	-90 dBm	+/-2dB
	MCS4	26 dBm	+/-2dB		MCS4	-86 dBm	+/-2dB
	MCS5	24 dBm	+/-2dB		MCS5	-83 dBm	+/-2dB
	MCS6	22 dBm	+/-2dB		MCS6	-77 dBm	+/-2dB
	MCS7	21 dBm	+/-2dB		MCS7	-74 dBm	+/-2dB
	MCS8	27 dBm	+/-2dB		MCS8	-95 dBm	+/-2dB
	MCS9	27 dBm	+/-2dB		MCS9	-93 dBm	+/-2dB
	MCS10	27 dBm	+/-2dB		MCS10	-90 dBm	+/-2dB
	MCS11	27 dBm	+/-2dB		MCS11	-87 dBm	+/-2dB
	MCS12	26 dBm	+/-2dB		MCS12	-84 dBm	+/-2dB
	MCS13	24 dBm	+/-2dB		MCS13	-79 dBm	+/-2dB
	MCS14	22 dBm	+/-2dB		MCS14	-78 dBm	+/-2dB
MCS15	21 dBm	+/-2dB	MCS15	-75 dBm	+/-2dB		
PHYSICAL / ELECTRICAL / ENVIRONMENTAL							
Enclosure Size	16cm length x 8cm width x 3cm height						
Weight	0.5 kg						
Enclosure Characteristics	Outdoor UV Stabilized Plastic						
Mounting Kit	Pole Mounting Kit included						
Max Power Consumption	6.5 Watts						
Power Supply	24V, 1A POE Supply Included						
Power Method	Passive Power over Ethernet (pairs 4,5+; 7,8 return)						
Operating Temperature	-30C to 75C						
Operating Humidity	5 to 95% Condensing						
Shock and Vibration	ETSI300-019-1.4						

COMPLIANCE INFORMATION

FCC

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

The antennas used for this transmitter must be installed to provide a separation distance of at least 35cm from all persons and must not be located or operating in conjunction with any other antenna or transmitter.

INDUSTRY CANADA

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that permitted for successful communication.

The device has been designed to operate with the antennas listed below and having a maximum gain of 24dBi. Antennas not included in this list or having a gain greater than 24dBi are strictly prohibited for use with this device. The required antenna impedance is 50 ohms

The following tables show maximum power levels not to be exceeded for each antenna

6dBi Omni Antenna		
Carrier Channel	Frequency (MHz)	Measured Peak Output Power dBm
Low	2412	25.67
Mid	2437	25.22
High	2462	24.77

Table 26. Max Output Power – 6dBi Omni Antenna

16dBi Sector Antenna		
Carrier Channel	Frequency (MHz)	Measured Peak Output Power dBm
Low	2412	13.85
Mid	2437	15.39
High	2462	12.40

Table 27. Max Output Power – 14dBi Sector Antenna

18dBi Panel Antenna		
Carrier Channel	Frequency (MHz)	Measured Peak Output Power dBm
Low	2412	9.96
Mid	2437	15.12
High	2462	10.14

Table 28. Max Output Power – 18dBi Panel Antenna

25dBi Grid Antenna		
Carrier Channel	Frequency (MHz)	Measured Peak Output Power dBm
Low	2412	8.48
Mid	2437	11.17
High	2462	7.20

Table 29. Max Output Power (Port 1 only) – 25dBi Grid Antenna