



PowerStation2

Hi-Performance, Open Software, Outdoor Wireless Stations

Data Sheet



Introducing PowerStation Series

A versatile open architecture 802.11 based outdoor wireless platform that can be used as an AP, Bridge, PMP Station, Mesh networking client, and in many more applications being developed. It features exceptional radio and antenna design which allowing links to be established over distances beyond 50km and can provide significantly increased throughput (up to 50+Mbps TCP/IP) over other solutions in comparable environments. Additionally, Ubiquiti has made public Linux SDK and toolchain resources for OEM's and carriers.

SOFTWARE SUPPORT



Designed by WISP's for WISP's from the Ground Up

The PowerStation architecture design was driven by the WISP community and embodies the collection of feature requests and suggestions proposed to Ubiquiti engineers from WISP operators. Every aspect of the product design from the nuts and bolts to the system and radio hardware to the antenna was 100% designed by Ubiquiti from the ground floor.

SYSTEM INFORMATION							
Processor Specs				Atheros AR2316 SOC, MIPS 4KC, 180MHz			
Memory Information				16MB SDRAM, 4MB Flash			
Networking Interface				2 X 10/100 BASE-TX (Cat. 5, RJ-45) Ethernet Interface			
REGULATORY / COMPLIANCE INFORMATION							
Wireless Modular Approvals				FCC Part 15.247, IC RS210			
RoHS Compliance				YES			
RADIO OPERATING FREQUENCY 2412-2462 MHz (2312-2732 MHz*)							
TX SPECIFICATIONS				RX SPECIFICATIONS			
	DataRate	TX Power	Tolerance		DataRate	Sensitivity	Tolerance
802.11b	1Mbps	26 dBm	+/-1dB	802.11b	1Mbps	-97 dBm	+/-1dB
	2Mbps	26 dBm	+/-1dB		2Mbps	-96 dBm	+/-1dB
	5.5Mbps	26 dBm	+/-1dB		5.5Mbps	-95 dBm	+/-1dB
	11Mbps	26 dBm	+/-1dB		11Mbps	-92 dBm	+/-1dB
802.11g OFDM	6Mbps	26 dBm	+/-1dB	802.11g OFDM	6Mbps	-94 dBm	+/-1dB
	9Mbps	26 dBm	+/-1dB		9Mbps	-93 dBm	+/-1dB
	12Mbps	26 dBm	+/-1dB		12Mbps	-91 dBm	+/-1dB
	18Mbps	26 dBm	+/-1dB		18Mbps	-90 dBm	+/-1dB
	24Mbps	26 dBm	+/-1dB		24Mbps	-86 dBm	+/-1dB
	36Mbps	24 dBm	+/-1dB		36Mbps	-83 dBm	+/-1dB
	48Mbps	23 dBm	+/-1dB		48Mbps	-77 dBm	+/-1dB
	54Mbps	22 dBm	+/-1dB		54Mbps	-74 dBm	+/-1dB
ADJUSTABLE CHANNEL SIZE SUPPORT							
5MHz		10MHz		20MHz		40MHz	
RANGE PERFORMANCE							
Outdoor (BaseStation Antenna Dependent):				Over 50km			
FOR 2312-2732 MHz Extended Frequency applications, please contact support@ubnt.com							



Adaptive Antenna Polarity Technology

Traditionally, when deploying outdoor antennas, the polarization is fixed for either vertical or horizontal operation with each have it's advantages.



Ubiquiti introduces a patent-pending technology which enables fixed use or "adaptively switched" on the fly use of the same antenna in multiple polarities.

ADAPTIVE ANTENNA POLARITY			
Gain	18dBi (2400-2500MHz)	Survival Wind	216 km /hr
Polarization	Multi-Polarized	Alignment	LED Indication
Polarization Selection	Software Controlled	3dB Beamwidth	20 Degrees
PHYSICAL / ELECTRICAL / ENVIRONMENTAL			
Enclosure Size	18 in. length x 13 in. height x 2in. Width		
Weight	8.8 lbs		
Enclosure Characteristics	Outdoor UV Stabalized Plastic (Antenna) and die cast metal (system)		
Mounting Kit	Pole / Wall Mounting Kit included		
Max Power Consumption	6.5 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	-40C to 85C (System PCB optimized for hi-temp)		
Operating Humidity	5 to 95% Condensing		
Shock and Vibration	ETSI300-019-1.4		



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