



High-Performance airMAX® Bridge
Models: PBE-5AC-300, PBE-5AC-400, PBE-5AC-500, PBE-5AC-620

Uniform Beamwidth Maximizes Noise Immunity

Innovative Mechanical Design

High-Speed Processor for Superior Performance



Overview

Ubiquiti Networks launches the latest generation of airMAX® CPE (Customer Premises Equipment), the PowerBeam® ac.

Improved Noise Immunity

The PowerBeam ac directs RF energy in a tighter beamwidth. With the focus in one direction, the PowerBeam ac blocks or spatially filters out noise, so noise immunity is improved. This feature is especially important in an area crowded with other RF signals of the same or similar frequency.

Integrated Design

Ubiquiti's InnerFeed® technology integrates the radio into the feedhorn of an antenna, so there is no need for a cable. This improves performance because it eliminates cable losses.

Featuring high performance and innovative mechanical design, the PowerBeam ac is versatile and cost-effective to deploy.

Software

airOS°7

Sporting an all-new design for improved usability, airOS® v7 is the revolutionary operating system for Ubiquiti® airMAX ac products.

Powerful Wireless Features

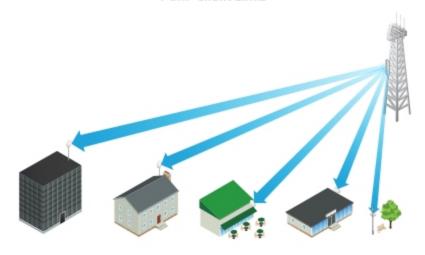
- · airMAX ac Protocol Support
- Long-Range Point-to-Point (PtP) Link Mode
- · Selectable Channel Width
 - PtP: 10/20/30/40/50/60/80 MHz
 - PtMP: 10/20/30/40 MHz
- · Automatic Channel Selection
- Transmit Power Control: Automatic/Manual
- Automatic Distance Selection (ACK Timing)
- Strongest WPA2 Security

Usability Enhancements

- · Dynamic Configuration Changes
- · Instant Input Validation
- HTML5 Technology
- · Optimization for Mobile Devices
- · Detailed Device Statistics
- Comprehensive Array of Diagnostic Tools, including Ethernet Cabling Test, RF Diagnostics, and airView® Spectrum Analyzer

Application Examples

PtMP Client Links



The PowerBeam ac used as a CPE device for each client in an airMAX PtMP network.

PtP Link



Use a PowerBeam ac on each side of a PtP link.



Advanced RF Analytics

airMAX ac devices feature a multi-radio architecture to power a revolutionary RF analytics engine.

An independent processor on the PCBA powers a second, dedicated radio, which persistently analyzes the full 5 GHz spectrum and every received symbol to provide you with the most advanced RF analytics in the industry.

Data from the spectrum analysis and RF performance monitoring is displayed on the *Main* tab and airView Spectrum Analyzer of airOS V7.

Real-Time Reporting

The Main tab displays the following RF information:

- Persistent RF Error Vector Magnitude (EVM) constellation diagrams
- Carrier to Interference-plus-Noise Ratio (CINR) histograms
- Signal-to-Noise Ratio (SNR) time series plots

Spectral Analysis

airView allows you to identify noise signatures and plan your networks to minimize noise interference, airView performs the following functions:

- Constantly monitors environmental noise
- Collects energy data points in real-time spectral views
- Helps optimize channel selection, network design, and wireless performance

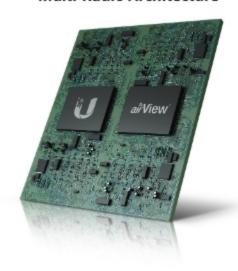
airView runs in the background without disabling the wireless link, so there is no disruption to the network.

In airView, there are three spectral views, each of which represents different data.

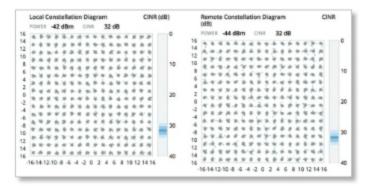
- Waterfall Aggregate energy collected for each frequency
- Waveform Aggregate energy collected
- Ambient Noise Level Background noise energy shown as a function of frequency

Available with a firmware upgrade to airOS v7.1, airView provides powerful spectrum analyzer functionality, eliminating the need to rent or purchase additional equipment for conducting site surveys.

Multi-Radio Architecture



Constellation Diagrams and CINR Histograms



SNR Time Series Plots



Dedicated Spectral Analysis



Technology

airMAX ac

Unlike standard Wi-Fi protocol, Ubiquiti's Time Division Multiple Access (TDMA) airMAX protocol allows each client to send and receive data using pre-designated time slots scheduled by an intelligent AP controller.

This time slot method eliminates hidden node collisions and maximizes airtime efficiency, so airMAX technology provides performance improvements in latency, noise immunity, scalability, and throughput compared to other outdoor systems in its class.

Intelligent QoS Priority assigned to voice/video for seamless streaming.

Scalability High capacity and scalability.

Long Distance Capable of high-speed, carrier-class links.

Superior Performance

The next-generation airMAX ac technology boosts the advantages of our proprietary TDMA protocol.

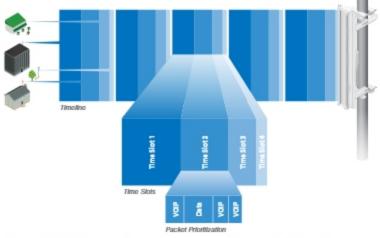
Ubiquiti's airMAX engine with custom IC dramatically improves TDMA latency and network scalability. The custom silicon provides hardware acceleration capabilities to the airMAX scheduler, to support the high data rates and dense modulation used in airMAX ac technology.

Throughput Breakthrough

airMAX ac supports high data rates, which require dense modulation: 256QAM – a significant increase from 64QAM, which is used in airMAX.

With their use of proprietary airMAX ac technology, airMAX ac products supports up to 450+ Mbps real TCP/IP throughput – up to triple the throughput of standard airMAX products.

airMAX ac TDMA Technology

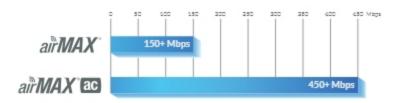


Up to 100 airMAX ac stations can be connected to an airMAX ac Sector; four airMAX ac stations are shown to illustrate the general concept.

airMAX Network Scalability



Superior Throughput Performance



Hardware Overview

Innovative Mechanical Design

- Built-in mechanical tilt All mounting brackets conveniently offer elevation adjustments:
 - PBE-5AC-300: ± 20° tilt
 - PBE-5AC-400/PBE-5AC-500: 20° uptilt and 10° downtilt
 - PBE-5AC-620: ± 15° tilt
- · Quick assembly Minimal fasteners simplify installation.
- Easy removal The antenna feed can be detached with the push of a button.

Industrial-Strength Construction

- Fasteners GEOMET-coated for improved corrosion resistance when compared with zinc-plated fasteners.
- Dish and brackets Made of galvanized steel that is powder-coated for superior corrosion resistance. The hardware also prevents paint from being removed from the metal brackets for improved corrosion resistance.
- Protective radome Shields the radio from the elements. It is included with the PBE-5AC-500 and available as an optional accessory for the PBE-5AC-400.

Models

Using airMAX ac technology, the PowerBeam ac supports up to 450+ Mbps real TCP/IP throughput. The PowerBeam ac launches with PtP functionality, and a client mode feature will be added with a future firmware upgrade.



PowerBeam ac

Model	Frequency	Gain	Dish Reflector	
PBE-5AC-300	5 GHz	22 dBi	300 mm	



PowerBeam ac

Model	Frequency	Gain	Dish Reflector
PBE-5AC-400	5 GHz	25 dBi	400 mm



PowerBeam® 400 mm Radome

Model	Frequency	PBE-5AC-400	Dish Reflector
PBE-RAD-400	5 GHz	✓	400 mm

A protective radome is available as an optional accessory for the PBE-5AC-400. It is also compatible with the PBE-M2-400 and PBE-M5-400.

Models



PowerBeam ac

Model	Frequency	Gain	Dish Reflector
PBE-5AC-500	5 GHz	27 dBi	500 mm



PowerBeam[®]ac

Model	Frequency	Gain	Dish Reflector	
PBE-5AC-620	5 GHz	29 dBi	620 mm	

PowerBeam ac Accessories

IsoBeam^{*}

Model: ISO-BEAM-620



The IsoBeam[™] is an isolator radome that is available as an optional accessory for the PBE-5AC-620 and other models:

- · PowerBeam PBE-M5-620
- RocketDish™RD-5G30-LW

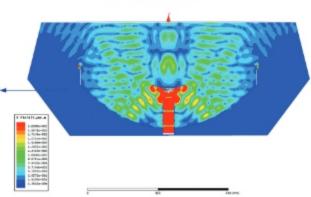
The innovative RF-choke perimeter of the IsoBeam delivers superior noise immunity in co-location deployments; its perimeter corrugation provides enhanced RF shielding. Compare the two near-field plots below, and note the breakthrough isolation performance of the IsoBeam.

Both near-field plots are displayed in watts and use a linear scale. The strength of the electromagnetic field is color-coded:

· Red: Highest strength · Green: Medium strength · Indigo: Lowest strength



With IsoBeam



Precision Alignment Kit

Model: PAK-620



The Precision Alignment Kit is available as an optional accessory for the PBE-5AC-620. It features 15° of azimuth adjustment and 15° of elevation adjustment to enable extremely accurate aiming for optimal PtP link

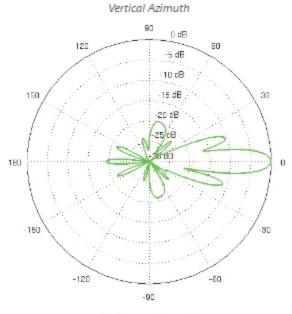
The Precision Alignment Kit is also compatible with other dish antennas:

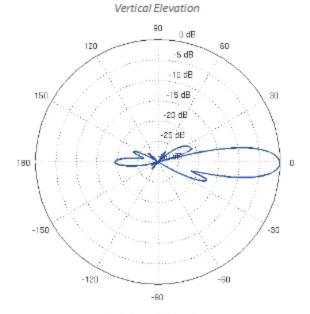
- airFiber® AF-5G30-S45
- PowerBeam PBE-M5-620
- RocketDish RD-5G30-LW

		PBE-5AC-	300			
Dimensions					325 x 325 x 256	mm (12.8 x 12.8 x 10.1")
Weight						1.203 kg (2.65 lbs)
Power Supply						24V, 0.5A Gigabit PoE
Max. Power Consumption						5.5W
Power Method					Passive PoE	(Pairs 4, 5+; 7, 8 Return)
Supported Voltage Range						20-26VDC
Operating Frequency	Worldwide	USA: U-NII-1	USA: U-	-NII-2A	USA: U-NII-2C	USA: U-NII-3
	5150 - 5875 MHz	5150 - 5250 MHz*	5250 - 53	50 MHz*	5470 - 5725 MHz*	5725 - 5850 MHz*
Gain						22 dBi
Networking Interface					(1) 10/	100/1000 Ethernet Port
Processor Specs					Athe	ros MIPS 74Kc, 560 MHz
Memory					64	MB DDR2, 16 MB Flash
LEDs					(1) P	ower, (1) LAN, (4) WLAN
Signal Strength LEDs				Software	Adjustable to Correspon	d to Custom RSSI Levels
Max. VSWR						1.5:1
Channel Sizes		PtP Mode			PtMP Mode	2
	10/20	/30/40/50/60/80 MHz			10/20/30/40 N	ЛНz
Polarization						Dual Linear
Enclosure					Outdo	or UV Stabilized Plastic
Mounting					Po	le-Mount (Kit Included)
Wind Loading					145.2 N @ 120	km/h (33 lbf@ 75 mph)
Wind Survivability						120 km/h (75 mph)
ESD/EMP Protection					Air: ±	24 kV, Contact: ± 24 kV
Operating Temperature					-40	0 to 70° C (-40 to 158° F)
Operating Humidity					5	to 95% Noncondensing
Wireless Approvals						FCC, IC, CE
RoHS Compliance						Yes
Salt Fog Test			IEC 68	-2-11 (ASTM	B117), Equivalent: MIL-S	TD-810 G Method 509.5
Vibration Test						IEC 68-2-6
Temperature Shock Test						IEC 68-2-14
UV Test				IEC 68	-2-5 at 40° C (104° F), Equi	ivalent: ETS 300 019-1-4
Wind-Driven Rain Test				ETS 300 0	19-1-4, Equivalent: MIL-S	TD-810 G Method 506.5

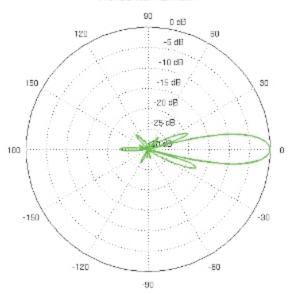
		PB	E-5AC-300 Ou	tput Power: 25 o	dBm		
	TX Power Speci	fications			RX Power Spe	cifications	
Modulation	Data Rate	Avg. TX	Tolerance	Modulation	Data Rate	Sensitivity	Tolerance
	1x BPSK (1/2)	25 dBm	± 2 dB		1x BPSK (1/2)	-96 dBm Min.	± 2 dB
	2x QPSK (1/2)	25 dBm	± 2 dB		2x QPSK (1/2)	-95 dBm	± 2 dB
	2x QPSK (%)	25 dBm	± 2 dB	U	2x QPSK (%)	-92 dBm	± 2 dB
<u>u</u>	4x 16QAM (1/2)	25 dBm	± 2 dB		4x 16QAM (1/2)	-90 dBm	± 2 dB
IrMAXa	4x 16QAM (%)	25 dBm	± 2 dB	××	4x 16QAM (%)	-86 dBm	± 2 dB
Ě	6x 64QAM (%)	25 dBm	± 2 dB	IMAX	6x 64QAM (%)	-83 dBm	± 2 dB
60	6x 64QAM (%)	24 dBm	± 2 dB	- e	6x 64QAM (%)	-77 dBm	± 2 dB
	6x 64QAM (%)	23 dBm	± 2 dB		6x 64QAM (%)	-74 dBm	± 2 dB
	8x 256QAM (¾)	21 dBm	± 2 dB		8x 256QAM (%)	-69 dBm	± 2 dB
	8x 256QAM (%)	21 dBm	± 2 dB		8x 256QAM (%)	-65 dBm	± 2 dB

^{*} Some frequencies may require activation; visit: https://www.ubnt.com/fcclabelrequest

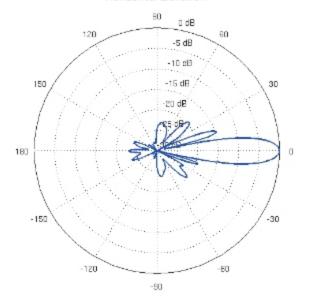




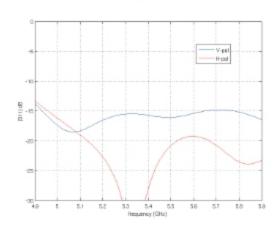




Horizontal Elevation



Return Loss

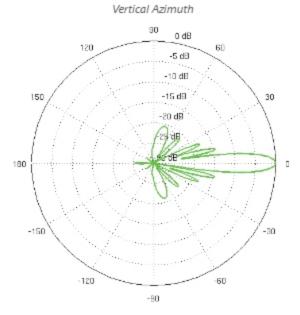


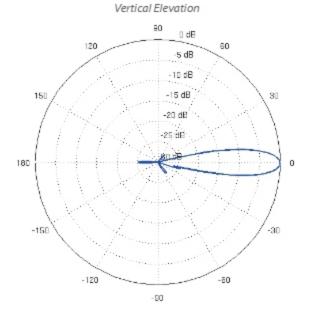


		PBE-5AC-	400			
Dimensions					420 x 420 x 275 mm	(16.54 x 16.54 x 10.83")
Weight						1.753 kg (3.87 lbs)
Power Supply						24V, 0.5A Gigabit PoE
Max. Power Consumption						8.5W
Power Method					Passive PoE	(Pairs 4, 5+; 7, 8 Return)
Supported Voltage Range						20-26VDC
Operating Frequency	Worldwide	USA: U-NII-1	USA: U	-NII-2A	USA: U-NII-2C	USA: U-NII-3
	5150 - 5875 MHz	5150 - 5250 MHz*	5250 - 53	50 MHz*	5470 - 5725 MHz*	5725 - 5850 MHz*
Gain						25 dBi
Networking Interface					(1) 10/	100/1000 Ethernet Port
Processor Specs					Athe	ros MIPS 74Kc, 560 MHz
Memory					64	MB DDR2, 16 MB Flash
LEDs					(1) P	ower, (1) LAN, (4) WLAN
Signal Strength LEDs				Software	-Adjustable to Correspond	d to Custom RSSI Levels
Max. VSWR						1.5:1
Channel Sizes		PtP Mode			PtMP Mode	ì.
	10/20	/30/40/50/60/80 MHz			10/20/30/40 N	ИНz
Polarization						Dual Linear
Enclosure					Outdo	or UV Stabilized Plastic
Mounting					Po	le-Mount (Kit Included)
Wind Loading					278.4 N @ 120	km/h (63 lbf @ 75 mph)
Wind Survivability						120 km/h (75 mph)
ESD/EMP Protection					Air: ±	24 kV, Contact: ± 24 kV
Operating Temperature					-40	to 70° C (-40 to 158° F)
Operating Humidity					5	to 95% Noncondensing
Wireless Approvals						FCC, IC, CE
RoHS Compliance						Yes
Salt Fog Test			IEC 68	3-2-11 (ASTN	B117), Equivalent: MIL-S	TD-810 G Method 509.5
Vibration Test						IEC 68-2-6
Temperature Shock Test						IEC 68-2-14
UV Test				IEC 68	-2-5 at 40° C (104° F), Equi	valent: ETS 300 019-1-4
Wind-Driven Rain Test				ETS 300 0	19-1-4, Equivalent: MIL-S	TD-810 G Method 506.5

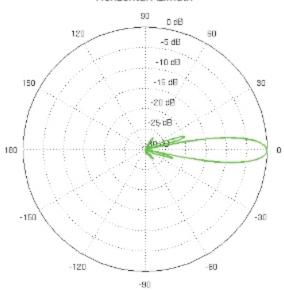
		PB	E-5AC-400 Ou	tput Power: 25	dBm				
	TX Power Specif	fications		RX Power Specifications					
Modulation	Data Rate	Avg. TX	Tolerance	Modulation	Data Rate	Sensitivity	Tolerance		
	1x BPSK (1/2)	25 dBm	± 2 dB		1x BPSK (1/2)	-96 dBm Min.	± 2 dB		
	2x QPSK (1/2)	25 dBm	± 2 dB		2x QPSK (1/2)	-95 dBm	± 2 dB		
	2x QPSK (%)	25 dBm	± 2 dB	o e	2x QPSK (%)	-92 dBm	± 2 dB		
<u>o</u>	4x 16QAM (1/2)	25 dBm	± 2 dB		4x 16QAM (1/2)	-90 dBm	± 2 dB		
a irMAXac	4x 16QAM (%)	25 dBm	± 2 dB	×	4x 16QAM (%)	-86 dBm	± 2 dB		
Ę	6x 64QAM (%)	25 dBm	± 2 dB	IMAX	6x 64QAM (%)	-83 dBm	± 2 dB		
60	6x 64QAM (%)	24 dBm	± 2 dB	- e	6x 64QAM (%)	-77 dBm	± 2 dB		
	6x 64QAM (%)	23 dBm	± 2 dB		6x 64QAM (%)	-74 dBm	± 2 dB		
	8x 256QAM (%)	21 dBm	± 2 dB		8x 256QAM (%)	-69 dBm	± 2 dB		
	8x 256QAM (%)	21 dBm	± 2 dB		8x 256QAM (%)	-65 dBm	± 2 dB		

^{*} Some frequencies may require activation; visit: https://www.ubnt.com/fcclabelrequest

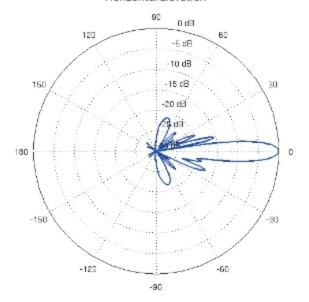




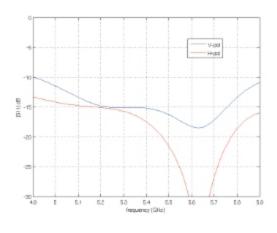




Horizontal Elevation



Return Loss

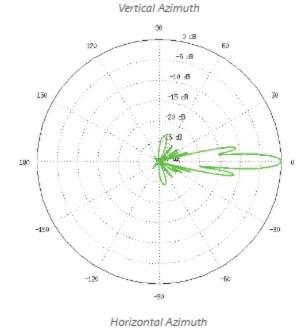


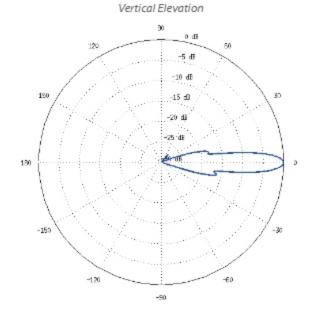


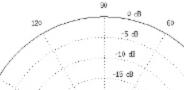
		PBE-5AC-	500			
Dimensions	R	adome Excluded			Radome Inclu	ded
	520 x 520 x 30	8 mm (20.47 x 20.47 x 12	5	25 x 525 x 315 mm (20.67	x 20.67 x 12.40")	
Weight	R	adome Excluded			Radome Inclu	ded
		2.35 kg (5.18 lb)			3.15 kg (6.95	lb)
Power Supply						24V, 0.5A Gigabit Pol
Max. Power Consumption						8.5W
Power Method					Passive PoE	(Pairs 4, 5+; 7, 8 Return
Supported Voltage Range						20-26VD0
Operating Frequency	Worldwide	USA: U-NII-1	USA: U-	-NII-2A	USA: U-NII-2C	USA: U-NII-3
	5150 - 5875 MHz	5150 - 5250 MHz*	5250 - 53	50 MHz*	5470 - 5725 MHz*	5725 - 5850 MHz*
Gain						27 dB
Networking Interface					(1) 10/	100/1000 Ethernet Por
Processor Specs					Athe	ros MIPS 74Kc, 720 MHz
Memory					128	MB DDR2, 16 MB Flasi
LEDs					(1) P	ower, (1) LAN, (4) WLAN
Signal Strength LEDs				Software	-Adjustable to Correspon	d to Custom RSSI Level
Max. VSWR						1.5:
Channel Sizes		PtP Mode			PtMP Mode	
	10/20	/30/40/50/60/80 MHz			10/20/30/40 N	ЛНz
Polarization						Dual Linea
Enclosure					Outdo	oor UV Stabilized Plasti
Mounting					Po	le-Mount (Kit Included
Wind Loading					264.6 N @ 96	km/h (60 lbf @ 60 mph
Wind Survivability						96 km/h (60 mph
ESD/EMP Protection					Air: ±	24 kV, Contact: ± 24 k
Operating Temperature					-4	0 to 70° C (-40 to 158° F
Operating Humidity					5	to 95% Noncondensing
Wireless Approvals						FCC, IC, C
RoHS Compliance						Ye
Salt Fog Test			IEC 68	-2-11 (ASTN	B117), Equivalent: MIL-S	TD-810 G Method 509.
Vibration Test						IEC 68-2-
Temperature Shock Test						IEC 68-2-1
UV Test				IEC 68	-2-5 at 40° C (104° F), Equi	ivalent: ETS 300 019-1-
Wind-Driven Rain Test				ETS 300 0	19-1-4, Equivalent: MIL-S	TD-810 G Method 506.5

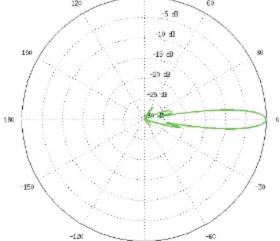
		PB	E-5AC-500 Ou	tput Power: 24	dBm		
	TX Power Speci	fications			RX Power Spec	cifications	
Modulation	Data Rate	Avg. TX	Tolerance	Modulation	Data Rate	Sensitivity	Tolerance
	1x BPSK (1/2)	24 dBm	± 2 dB		1x BPSK (1/2)	-96 dBm	± 2 dB
	2x QPSK (1/2)	24 dBm	± 2 dB		2x QPSK (1/2)	-95 dBm	± 2 dB
	2x QPSK (%)	24 dBm	± 2 dB	U	2x QPSK (%)	-92 dBm	± 2 dB
<u>u</u>	4x 16QAM (1/2)	24 dBm	± 2 dB		4x 16QAM (1/2)	-90 dBm	± 2 dB
×	4x 16QAM (%)	24 dBm	± 2 dB	×	4x 16QAM (%)	-86 dBm	± 2 dB
airMAXac	6x 64QAM (%)	23 dBm	± 2 dB	airMAXac	6x 64QAM (%)	-83 dBm	± 2 dB
- e	6x 64QAM (¾)	22 dBm	± 2 dB	-e	6x 64QAM (¾)	-77 dBm	± 2 dB
	6x 64QAM (%)	21 dBm	± 2 dB		6x 64QAM (%)	-74 dBm	± 2 dB
	8x 256QAM (%)	20 dBm	± 2 dB		8x 256QAM (%)	-69 dBm	± 2 dB
	8x 256QAM (%)	19 dBm	± 2 dB		8x 256QAM (%)	-65 dBm	± 2 dB

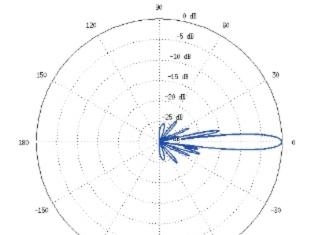
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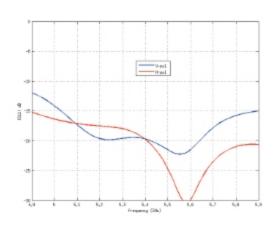






Horizontal Elevation



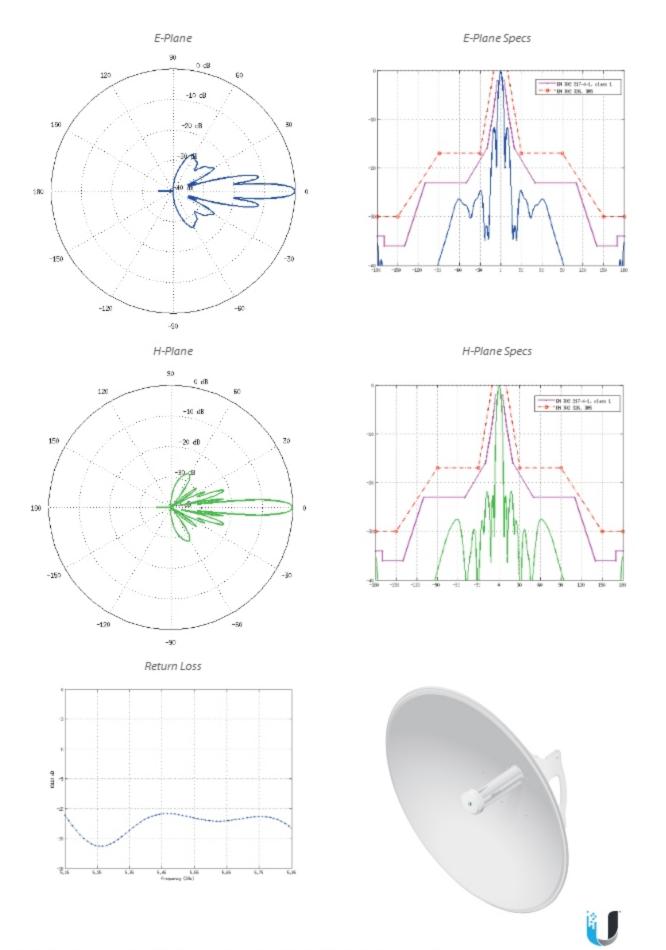




		PBE-5AC-	620						
Dimensions					620 x 620 x 386 mr	n (24.41 x 24.41 x 15.2'			
Weight	6.4 kg (14.11 lbs)								
Power Supply		24V, 0.5A Gigabit PoE							
Max. Power Consumption						8.50			
Power Method					Passive PoE	(Pairs 4, 5+; 7, 8 Return			
Supported Voltage Range						20-26VD			
Operating Frequency	Worldwide	USA: U-NII-1	USA: U	-NII-2A	USA: U-NII-2C	USA: U-NII-3			
	5150 - 5875 MHz	5150 - 5250 MHz*	5250 - 53	50 MHz*	5470 - 5725 MHz*	5725 - 5850 MHz*			
Gain						29 dE			
Networking Interface					(1) 10/	100/1000 Ethernet Por			
Processor Specs					Athe	ros MIPS 74Kc, 720 MH			
Memory					128	MB DDR2, 16 MB Flas			
LEDs					(1) P	ower, (1) LAN, (4) WLA!			
Signal Strength LEDs				Software	-Adjustable to Correspon	d to Custom RSSI Level			
Max. VSWR						1.6:			
Channel Sizes		PtP Mode			PtMP Mode	1			
	10/20	/30/40/50/60/80 MHz			10/20/30/40 N	ЛНz			
Polarization						Dual Linea			
Enclosure					Outdo	oor UV Stabilized Plasti			
Mounting					Po	le-Mount (Kit Included			
MC - 41 45	Ra	dome Excluded			Radome Includ	led			
Wind Loading	1510 N @ 200) km/h (340 lbf @ 125 mpl	h)	1	830 N @ 200 km/h (411 li	of @ 125 mph)			
Wind Survivability						200 km/h (125 mph			
ESD/EMP Protection					Air: ±	24 kV, Contact: ± 24 k			
Operating Temperature					-40	0 to 70° C (-40 to 158° F			
Operating Humidity					5	to 95% Noncondensin			
Wireless Approvals						FCC, IC, C			
RoHS Compliance						Ye			
Salt Fog Test			IEC 68	2-2-11 (ASTM	B117), Equivalent: MIL-S	TD-810 G Method 509.			
Vibration Test						IEC 68-2-			
Temperature Shock Test						IEC 68-2-1			
UV Test				IEC 68	-2-5 at 40° C (104° F), Equi	ivalent: ETS 300 019-1-			
Wind-Driven Rain Test				ETS 300 0	19-1-4, Equivalent: MIL-S	TD-810 G Method 506.			

		PB	E-5AC-620 Ou	tput Power: 24 (dBm		
TX Power Specifications				RX Power Specifications			
Modulation	Data Rate	Avg. TX	Tolerance	Modulation	Data Rate	Sensitivity	Tolerance
a IrMAX ac	1x BPSK (1/2)	24 dBm	± 2 dB	a IrMAX ac	1x BPSK (1/2)	-96 dBm Min.	± 2 dB
	2x QPSK (1/2)	24 dBm	± 2 dB		2x QPSK (1/2)	-95 dBm	± 2 dB
	2x QPSK (%)	24 dBm	± 2 dB		2x QPSK (%)	-92 dBm	± 2 dB
	4x 16QAM (1/2)	24 dBm	± 2 dB		4x 16QAM (1/2)	-90 dBm	± 2 dB
	4x 16QAM (%)	24 dBm	± 2 dB		4x 16QAM (%)	-86 dBm	± 2 dB
	6x 64QAM (%)	23 dBm	± 2 dB		6x 64QAM (%)	-83 dBm	± 2 dB
	6x 64QAM (%)	23 dBm	± 2 dB		6x 64QAM (%)	-77 dBm	± 2 dB
	6x 64QAM (%)	22 dBm	± 2 dB		6x 64QAM (%)	-74 dBm	± 2 dB
	8x 256QAM (%)	20 dBm	± 2 dB		8x 256QAM (%)	-69 dBm	± 2 dB
	8x 256QAM (%)	20 dBm	± 2 dB		8x 256QAM (%)	-65 dBm	± 2 dB

^{*} Some frequencies may require activation; visit: https://www.ubnt.com/fcclabelrequest



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